

JAKA®

www.jaka.com | 🔍

Shanghai JAKA Robotics Ltd

📍 JAKA Shanghai: Building 33-35, No. 610 Jianchuan Rd, Minhang District, Shanghai, China

📍 JAKA Changzhou: Building 10, No.377 South Wuyi Rd, Changzhou, Jiangsu, China

📍 JAKA Shenzhen: Room 501, Building 7, Taihua Wutong Industrial Park, Baoan District, Shenzhen, China

✉ marketing@jakarobotics.com

☎ 400-006-2665



JAKA official account JAKA OTA mini program

Copyright © 2022 JAKA. All rights reserved.

Disclaimers:

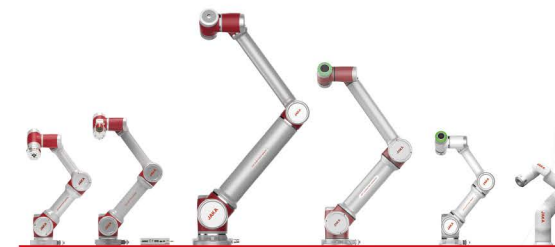
The copyright belongs to JAKA and cannot be copied or reproduced in any form without written permission.

The company reserves the right to interpret and update the contents of the materials without notice.

JAKA®

Just Always Keep Amazing

Global Leader in Flexible Intelligent Robots



PRODUCT SELECTION GUIDE



Wireless interconnection, no teaching pendant

JAKA series of collaborative robots innovatively adopts the mobile terminal APP control mode, which gets rid of the traditional cumbersome teaching pendant and lengthy control lines, making the teaching process in a limited space more convenient.



Safety collaboration, collision protection

Built-in torque feedback module, when the collision torque reaches the set torque upper limit, the robot will stop in time to avoid personal injury or equipment damage, and realize human-machine safe cooperation.



Drag & graphical programming

Manually drag the end of the robot to the corresponding point, and the robot can learn and memorize to complete the programming. The new program can be edited and adjusted immediately, and the whole process only takes a few minutes, realizing the rapid change of tasks.



Remote interaction, real-time monitoring

Supports remote programming control collaboration. While no longer limited by geographical soace, Jaka series collaborative robots also realize the control of multiple cobots from one mobile terminal. Now, the remote release of program commands or task packages can be realized only through the mobile terminal.



Plug and play, fast switching

Jaka series collaborative robots are light and compact, featuring easy installation, visual recognition, and strong equipment compatibility. Good versatility and flexibility make the Jaka robot truly plug-and-use and rapid deployment in any production environment. It is excellent for small batch, multi-batch, customization, short cycle and other production requirements.



Open software and hardware ecosystem

Developed on Linux system platform development, which have high compatibility. Users can remotely interact with the robot from Android, iOS, Windows and other multi-platform systems through Ethernet protocol (TCP/IP), Industrial bus Profinet, Ethernet/IP and Modbus. Provide a common control interface to quickly connect upstream and downstream automation equipment.

JAKA®

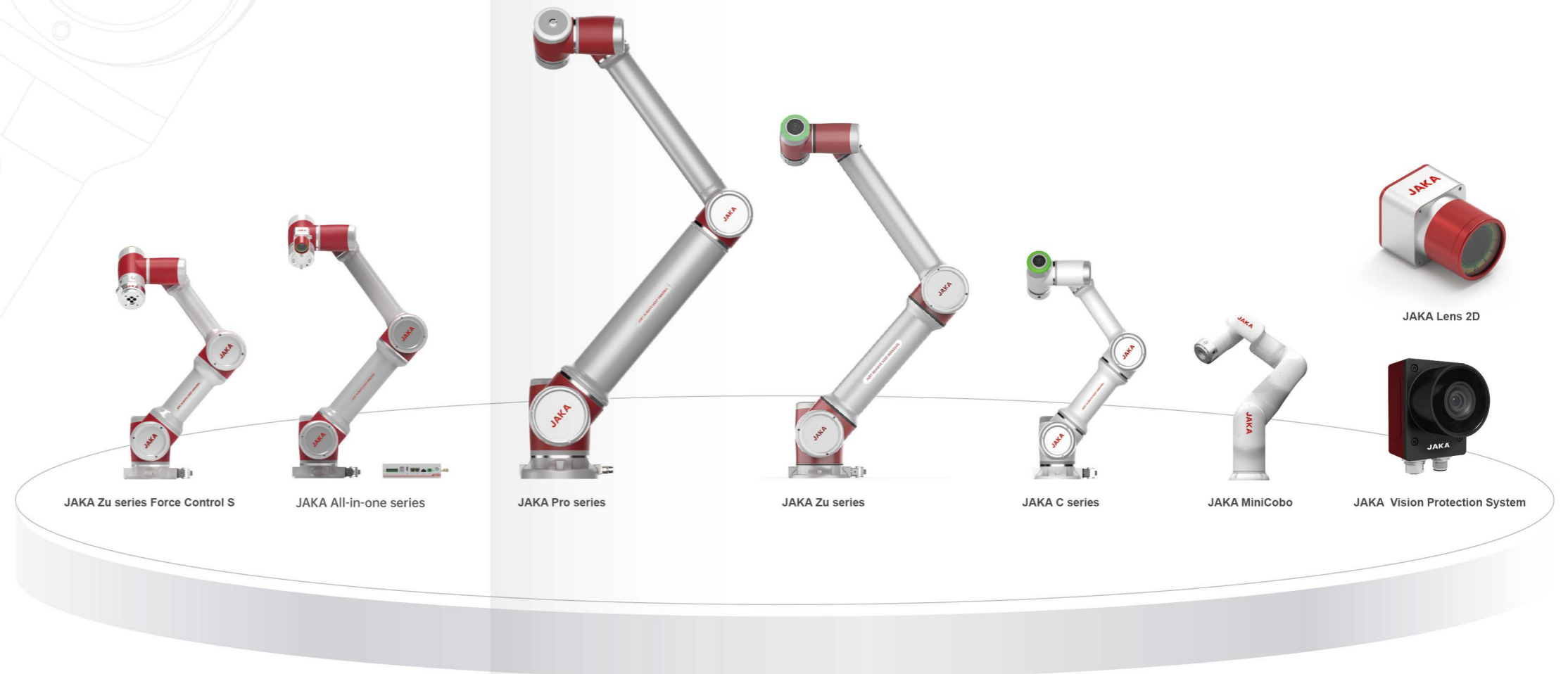
Product Matrix



 Ease of Use	 Security
 Reliability	 Compatibility

Flexible • Intelligence

Covering the whole industry
to meet the needs of different application scenarios



Whole industry coverage

Meet the needs of different application scenarios

JAKA Zu series cobots



Comprehensive performance

Comprehensive covering the industrial field

- »» The innovative force of collaborative robots
Significantly lowers the application threshold of robots, and quickly deploys and teaches robots
- »» Performance
Point repeatability $\pm 0.02\text{mm}$, absolute positioning accuracy better than $\pm 0.5\text{mm}$
- »» Applicable scene
Automobile and parts, 3C electronics, precision manufacturing, food, education, service, etc.



JAKA Zu series cobots Force Control S



Smarter and safer

- »» The controller integrates the force control module, which is easy to configure, debug and program

»» Features

 Interactivity End stiffness decoupling, flexible traction teaching	 Ease of use App configuration is simple Real-time force value display	 Practicality Various force control modes Constant force accuracy	 Safety Full-arm collision detection Self-learning monitoring
---	--	---	---

- »» Applicable scene
Assembly, Grinding, Polishing, Inspection, Consumer and Education etc.



Flexible and smart

Each cobot has its own strengths

JAKA Pro series cobots



High protection and more reliable

Meet the needs of higher-level industrial environments

- »» Expand the boundaries of collaborative robot applications and lead productivity changes and breakthroughs
- »» Performance
The highest protection level of the body is IP68 in the industry, and the high precision is maintained throughout the life cycle
- »» Applicable industries
Automobile and parts, 3C electronics, metal machining, electric power, agriculture, food, etc.
- »» Features
High protection level: stronger environmental adaptability (IP68), to meet higher protection level required industrial application scenarios

Whole industry coverage

Meet the needs of different application scenarios

JAKA All-in-one Inclusion series cobots



Easier to use and smarter

Quickly deploy smart jobs

- »» Using the industry's smallest portable controller, wireless interconnection technology
- »» Integrated vision module to better realize human-machine integration through AI and vision technology
- »» Applicable industries
3C, automotive, commercial, new retail
- »» Applicable scene
Composite robots, 3C electronics, logistics, machine tool loading and unloading, assembly, etc.



Flexible and smart

Each cobot has its own strengths

JAKA C series cobot



Cost-effective

Stable and reliable body design

- »» Adopt 21-bit high-precision encoder design, simple and reliable structure, low maintenance cost
- »» Applicable industries
General Industry, Automotive, Education, Commercial, New Retail
- »» Applicable scene
Machine loading and unloading, handling, packaging, 3C testing, etc.



JAKA MiniCobo



Commercial Cost-effective Lightweight

- »» Desktop level, lightweight, extreme cost performance

»» Features



- »» Applicable industries
new business, education and research



JAKA Zu series cobots

Standardization

Plug and play,
convenient deployment,
flexible production

Intelligent

Flexible and intelligent,
easy to operate,
efficient collaboration

Specialization

Meet the needs of reliable
operations in high-precision
collaboration scenarios



	Product model	JAKA Zu® 3		JAKA Zu® 5		JAKA Zu® 7		JAKA Zu® 12		JAKA Zu® 18	
	Product Features	Maximum payload	3kg		5kg		7kg		12kg		18kg
Weight		12kg		23kg		22kg		41kg		35kg	
Working radius		626mm		954mm		819mm		1327mm		1073mm	
Repeatability		±0.02mm		±0.02mm		±0.02mm		±0.03mm		±0.03mm	
Degrees of freedom		6 axes		6 axes		6 axes		6 axes		6 axes	
Programming		Graphical drag-and-drop programmin		Graphical drag-and-drop programmin		Graphical drag-and-drop programmin		Graphical drag-and-drop programmin		Graphical drag-and-drop programmin	
FlexPendant Type		PC,Mobile device (PAD/mobile)		PC,Mobile device (PAD/mobile)		PC,Mobile device (PAD/mobile)		PC,Mobile device (PAD/mobile)		PC,Mobile device (PAD/mobile)	
Working range and speed	Robot joint	Working range	Maximum speed	Working range	Maximum speed	Working range	Maximum speed	Working range	Maximum speed	Working range	Maximum speed
	Joint1	±360°	180°/s	±360°	180°/s	±360°	180°/s	±360°	120°/s	±360°	120°/s
	Joint2	-85°, +265°	180°/s	-85°, +265°	180°/s	-85°, +265°	180°/s	-85°, +265°	120°/s	-85°, +265°	120°/s
	Joint3	±175°	180°/s	±175°	180°/s	±175°	180°/s	±175°	120°/s	±175°	180°/s
	Joint4	-85°, +265°	220°/s	-85°, +265°	180°/s	-85°, +265°	180°/s	-85°, +265°	180°/s	-85°, +265°	180°/s
	Joint5	±360°	220°/s	±360°	180°/s	±360°	180°/s	±360°	180°/s	±360°	180°/s
	Joint6	±360°	220°/s	±360°	180°/s	±360°	180°/s	±360°	180°/s	±360°	180°/s
Maximum speed of the tool end	/	1.5m/s	/	3m/s	/	2.5m/s	/	3m/s	/	3.5m/s	
Physical properties and others	Power consumption	150W		350W		350W		500W		600W	
	IP classification	IP54		IP54		IP54		IP54		IP54	
	Tool I/O Ports	Digital input 2		Digital input 2		Digital input 2		Digital input 2		Digital input 2	
		Digital output 2		Digital output 2		Digital output 2		Digital output 2		Digital output 2	
		Analog input 1		Analog input 1		Analog input 1		Analog input 1		Analog input 1	
Base diameter	129mm		158mm		158mm		188mm		188mm		
Electrical cabinet	IP classification	IP44		IP44		IP44		IP44		IP44	
	I/Oports	16 digital inputs, 16 digital outputs, 2 analog inputs or outputs		16 digital inputs, 16 digital outputs, 2 analog inputs or outputs		16 digital inputs, 16 digital outputs, 2 analog inputs or outputs		16 digital inputs, 16 digital outputs, 2 analog inputs or outputs		16 digital inputs, 16 digital outputs, 2 analog inputs or outputs	
	Communication	TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP		TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP		TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP		TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP		TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP	
	Power	100-240VAC, 50-60Hz		100-240VAC, 50-60Hz		100-240VAC, 50-60Hz		100-240VAC, 50-60Hz		100-240VAC, 50-60Hz	
	Size	410×307×235 (mm) (W×H×D)		410×307×235 (mm) (W×H×D)		410×307×235 (mm) (W×H×D)		410×307×235 (mm) (W×H×D)		410×307×235 (mm) (W×H×D)	
	Weight	13.5kg		15.4kg		15.4kg		18kg		18kg	

JAKA Zu series cobots Force Control S



Interactivity

End stiffness decoupling,
flexible traction teaching



Ease of use

App configuration is simple
Real-time force value display



Practicality

Various force control modes
Constant force accuracy



Safety

Full-arm collision detection
Self-learning monitoring



	Product model	JAKA Zu® 3s		JAKA Zu® 5s		JAKA Zu® 7s			JAKA Zu® 12s			JAKA Zu® 18s		
	Product Features	Maximum payload	3kg		5kg		7kg			12kg			18kg	
Weight (含电缆)		12kg		23kg		22kg			41kg			35kg		
Working radius		626mm		654mm		819mm			1327mm			1073mm		
Repeatability		±0.02mm		±0.02mm		±0.02mm			±0.03mm			±0.03mm		
Degrees of freedom		6 axes		6 axes		6 axes			6 axes			6 axes		
Programming		Graphical drag-and-drop programmin		Graphical drag-and-drop programmin		Graphical drag-and-drop programmin			Graphical drag-and-drop programmin			Graphical drag-and-drop programmin		
FlexPendant Type		PC,Mobile device (PAD/mobile)		PC,Mobile device (PAD/mobile)		PC,Mobile device (PAD/mobile)			PC,Mobile device (PAD/mobile)			PC,Mobile device (PAD/mobile)		
Working range and speed	Robot joint	Working range	Maximum speed	Working range	Maximum speed	Working range	Maximum speed	Working range	Maximum speed	Working range	Maximum speed	Working range	Maximum speed	
	Joint1	±360°	180°/s	±360°	180°/s	±360°	180°/s	±360°	120°/s	±360°	120°/s	±360°	120°/s	
	Joint2	-85°, +265°	180°/s	-85°, +265°	180°/s	-85°, +265°	180°/s	-85°, +265°	120°/s	-85°, +265°	120°/s	-85°, +265°	120°/s	
	Joint3	±175°	180°/s	±175°	180°/s	±175°	180°/s	±175°	120°/s	±175°	180°/s	±175°	180°/s	
	Joint4	-85°, +265°	220°/s	-85°, +265°	180°/s	-85°, +265°	180°/s	-85°, +265°	180°/s	-85°, +265°	180°/s	-85°, +265°	180°/s	
	Joint5	±360°	220°/s	±360°	180°/s	±360°	180°/s	±360°	180°/s	±360°	180°/s	±360°	180°/s	
	Joint6	±360°	220°/s	±360°	180°/s	±360°	180°/s	±360°	180°/s	±360°	180°/s	±360°	180°/s	
Maximum speed of the tool end	/	1.5m/s	/	3m/s	/	2.5m/s	/	3m/s	/	3m/s	/	3.5m/s		
Physical properties and others	Power consumption	150W		350W		350W			500W			600W		
	IP classification	IP54		IP54		IP54			IP54			IP54		
	Tool I/O Ports	Digital input 2	Digital output 2	Analog input 1	Digital input 2	Digital output 2	Analog input 1	Digital input 2	Digital output 2	Analog input 1	Digital input 2	Digital output 2	Analog input 1	
	Base diameter	129mm		158mm		158mm			188mm			188mm		
Power Control Module Optional List	End tool	Range (Fx/Fy)	100N/250N	200N/400N	100N/250N	200N/400N	100N/250N	200N/400N	250N	400N	250N	400N		
		Interface Type	Ethernet interface	serial	Ethernet interface	serial	Ethernet interface	serial	Ethernet interface	serial	Ethernet interface	serial		
		Protection class	IP64		IP64		IP64			IP64				
	Base	Range (Fx/Fy)	500N		1600N		1600N			400N			4000N	
		Interface Type	Ethernet interface		Ethernet interface		Ethernet interface			Ethernet interface			Ethernet interface	
		Voltage	24V		24V		24V			24V			24V	
Protection class	IP64		IP64		IP64			IP64			IP64			
Electrical cabinet	IP classification	IP44		IP44		IP44			IP44			IP44		
	I/Oports	16 digital inputs, 16 digital outputs, 2 analog inputs or outputs		16 digital inputs, 16 digital outputs, 2 analog inputs or outputs		16 digital inputs, 16 digital outputs, 2 analog inputs or outputs			16 digital inputs, 16 digital outputs, 2 analog inputs or outputs			16 digital inputs, 16 digital outputs, 2 analog inputs or outputs		
	Communication	TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP		TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP		TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP			TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP			TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP		
	Power	100-240VAC, 50-60Hz		100-240VAC, 50-60Hz		100-240VAC, 50-60Hz			100-240VAC, 50-60Hz			100-240VAC, 50-60Hz		
	Size	410×307×235 (mm) (W×H×D)		410×307×235 (mm) (W×H×D)		410×307×235 (mm) (W×H×D)			410×307×235 (mm) (W×H×D)			410×307×235 (mm) (W×H×D)		
	Weight	13.5kg		15.4kg		15.4kg			18kg			18kg		

JAKA All-in-one Inclusion series cobots



Extremely Wise

Embedded vision system for proprioceptive perception



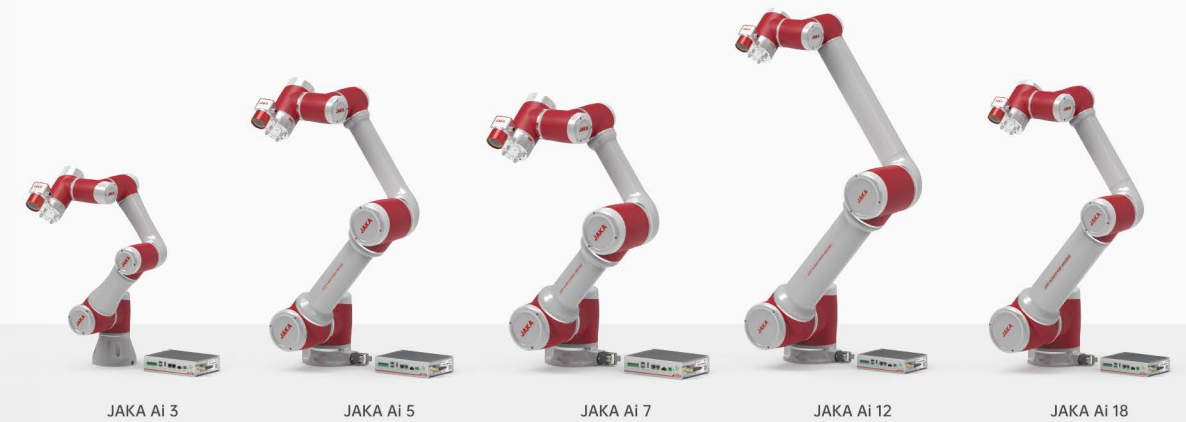
Extremely Simple

App/web interface, drag-and-drop programming



Extremely Small

Integrated, compact body



Product Features	Product model	JAKA Ai 3			JAKA Ai 5			JAKA Ai 7			JAKA Ai 12			JAKA Ai 18			
		Maximum payload	3kg			5kg			7kg			12kg			18kg		
	Weight	12kg			23kg			22kg			41kg			35kg			
	Working radius	626mm			954mm			819mm			1327mm			1073mm			
	Repeatability	±0.02mm			±0.02mm			±0.02mm			±0.03mm			±0.03mm			
	Degrees of freedom	6 axes			6 axes			6 axes			6 axes			6 axes			
	Programming	Graphical drag-and-drop programmin			Graphical drag-and-drop programmin			Graphical drag-and-drop programmin			Graphical drag-and-drop programmin			Graphical drag-and-drop programmin			
	FlexPendant Type	PC,Mobile device (PAD/mobile)			PC,Mobile device (PAD/mobile)			PC,Mobile device (PAD/mobile)			PC,Mobile device (PAD/mobile)			PC,Mobile device (PAD/mobile)			
Working range and speed	Robot joint	Working range		Maximum speed		Working range		Maximum speed		Working range		Maximum speed		Working range		Maximum speed	
	Joint1	±360°		180°/s		±360°		180°/s		±360°		180°/s		±360°		120°/s	
	Joint2	-85°, +265°		180°/s		-85°, +265°		180°/s		-85°, +265°		180°/s		-85°, +265°		120°/s	
	Joint3	±175°		180°/s		±175°		180°/s		±175°		180°/s		±175°		180°/s	
	Joint4	-85°, +265°		220°/s		-85°, +265°		180°/s		-85°, +265°		180°/s		-85°, +265°		180°/s	
	Joint5	±360°		220°/s		±360°		180°/s		±360°		180°/s		±360°		180°/s	
	Joint6	±360°		220°/s		±360°		180°/s		±360°		180°/s		±360°		180°/s	
	Maximum speed of the tool end	/		1.5m/s		/		3m/s		/		2.5m/s		/		3m/s	
Physical properties and others	Power consumption	150W			350W			350W			500W			600W			
	IP classification	IP54			IP54			IP54			IP54			IP54			
	Tool I/O Ports	Digital input 2	Digital output 2	Analog input 1	Digital input 2	Digital output 2	Analog input 1	Digital input 2	Digital output 2	Analog input 1	Digital input 2	Digital output 2	Analog input 1	Digital input 2	Digital output 2	Analog input 1	
	Base diameter	129mm			158mm			158mm			188mm			188mm			
Lens 2D camera parameters	Lens focal length	8mm		16mm		8mm		16mm		8mm		16mm		8mm		16mm	
	Color mode	B&W/Color			B&W/Color			B&W/Color			B&W/Color			B&W/Color			
	Vision	>70mm*50mm		>35mm*25mm		>70mm*50mm		>35mm*25mm		>70mm*50mm		>35mm*25mm		>70mm*50mm		>35mm*25mm	
	Precision	>0.08mm		>0.04mm		>0.08mm		>0.04mm		>0.08mm		>0.04mm		>0.08mm		>0.04mm	
	Communication Interface	Ethernet interface (TCP/IP protocol)			Ethernet interface (TCP/IP protocol)			Ethernet interface (TCP/IP protocol)			Ethernet interface (TCP/IP protocol)			Ethernet interface (TCP/IP protocol)			
	Resolution	2592(H) ×1944(V)			2592(H) ×1944(V)			2592(H) ×1944(V)			2592(H) ×1944(V)			2592(H) ×1944(V)			
Frame rate	24FPS			24FPS			24FPS			24FPS			24FPS				
MiniCab Cabinet	Input power	DC30-60V			DC30-60V			DC30-60V			DC30-60V			DC30-60V			
	Input current	≤40A			≤40A			≤40A			≤40A			≤40A			
	Size	180×128×47(mm)(L×W×H)			180×128×47(mm)(L×W×H)			180×128×47(mm)(L×W×H)			180×128×47(mm)(L×W×H)			180×128×47(mm)(L×W×H)			
	IP classification	IP20			IP20			IP20			IP20			IP20			
	I/Oports	7-way port; Input and output configurable			7-way port; Input and output configurable			7-way port; Input and output configurable			7-way port; Input and output configurable			7-way port; Input and output configurable			
	Communication	TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP			TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP			TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP			TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP			TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP			
	Weight	About 1.7 kg (including accessories)			About 1.7 kg (including accessories)			About 1.7 kg (including accessories)			About 1.7 kg (including accessories)			About 1.7 kg (including accessories)			

JAKA Pro series cobots

More Reliable

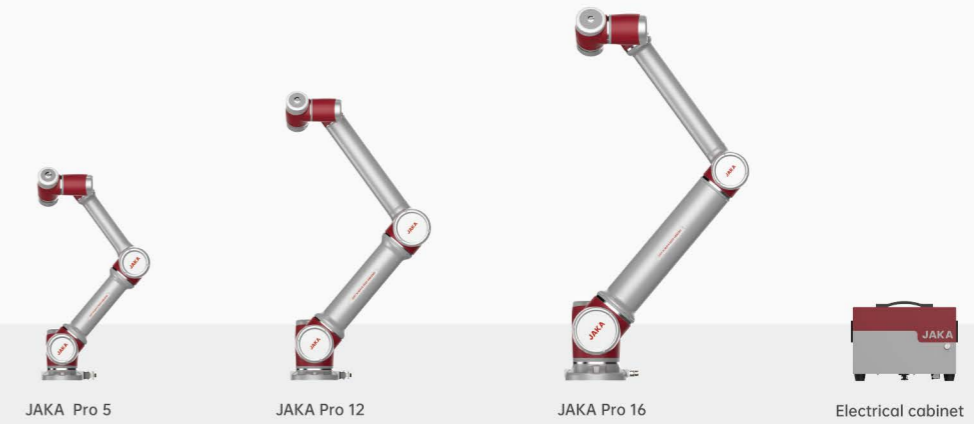
Industry's highest IP68 protection level, no fear of oil and dust

More Stable

High-precision maintenance Worry-free collaborative production

More Efficient

Fast and intelligent operation integrates Multiple mechanisms for safe integration



	Product model	JAKA Pro 5		JAKA Pro 12		JAKA Pro 16	
Product Features	Maximum payload	5kg		12kg		16kg	
	Weight	23.5kg		41kg		74kg	
	Working radius	954mm		1327mm		1713mm	
	Repeatability	±0.02mm		±0.02mm		±0.02mm	
	Degrees of freedom	6 axes		6 axes		6 axes	
	Programming	Graphical drag-and-drop programmin		Graphical drag-and-drop programmin		Graphical drag-and-drop programmin	
	FlexPendant Type	PC,Mobile device (PAD/mobile)		PC,Mobile device (PAD/mobile)		PC,Mobile device (PAD/mobile)	
Working range and speed	Robot joint	Working range		Working range		Working range	
		Maximum speed		Maximum speed		Maximum speed	
	Joint1	±360°	180°/s	±360°	120°/s	±360°	120°/s
	Joint2	-85°,+265°	180°/s	-85°,+265°	120°/s	-85°,+265°	120°/s
	Joint3	±175°	180°/s	±175°	120°/s	±175°	120°/s
	Joint4	-85°,+265°	180°/s	-85°,+265°	180°/s	-85°,+265°	180°/s
	Joint5	±360°	180°/s	±360°	180°/s	±360°	180°/s
	Joint6	±360°	180°/s	±360°	180°/s	±360°	180°/s
	Maximum speed of the tool end	/	3m/s	/	3m/s	/	3.9m/s
Physical properties and others	Power consumption	350W		500W		750W	
	IP classification	IP68		IP68		IP68	
	Tool I/O Ports	Digital input 2		Digital input 2		Digital input 2	
		Digital output 2		Digital output 2		Digital output 2	
		Analog input 1		Analog input 1		Analog input 1	
Base diameter	158mm		188mm		246mm		
Electrical cabinet	IP classification	IP44		IP44		IP44	
	I/Oports	16 digital inputs, 16 digital outputs, 2 analog inputs or outputs		16 digital inputs, 16 digital outputs, 2 analog inputs or outputs		16 digital inputs, 16 digital outputs, 2 analog inputs or outputs	
	Communication	TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP		TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP		TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP	
	Power	100-240VAC, 50-60Hz		100-240VAC, 50-60Hz		100-240VAC, 50-60Hz	
	Size	410×307×235 (mm) (W×H×D)		410×307×235 (mm) (W×H×D)		410×307×235 (mm) (W×H×D)	
	Weight	15.4kg		18kg		18kg	

JAKA C series cobot

ECO

Comprehensive performance

Meet the needs of most industrial application scenarios

Stable and reliable

Simple maintenance

Low-cost, maintenance-free performance with less worry

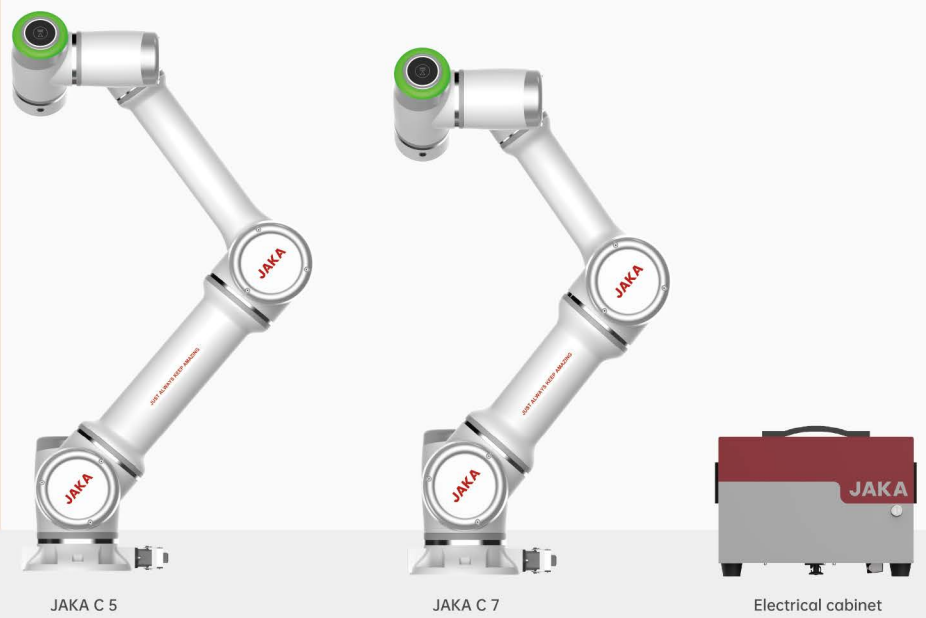
Cost-effective

Easy to deploy

Inheritance card smart programming

Wireless teaching system

Safe and efficient



Product Features	Product model	JAKA C 5		JAKA C 7	
	Maximum payload		5kg		7kg
Weight		23kg		22kg	
Working radius		954mm		819mm	
Repeatability		±0.05mm		±0.05mm	
Degrees of freedom		6 axes		6 axes	
Programming		Graphical drag-and-drop programmin		Graphical drag-and-drop programmin	
FlexPendant Type		PC,Mobile device (PAD/mobile)		PC,Mobile device (PAD/mobile)	
Working range and speed	Robot joint	Working range	Maximum speed	Working range	Maximum speed
	Joint1	±360°	180°/s	±360°	180°/s
	Joint2	-85°, +265°	180°/s	-85°, +265°	180°/s
	Joint3	±175°	180°/s	±175°	180°/s
	Joint4	-85°, +265°	180°/s	-85°, +265°	180°/s
	Joint5	±360°	180°/s	±360°	180°/s
	Joint6	±360°	180°/s	±360°	180°/s
Maximum speed of the tool end	/	3m/s	/	2.5m/s	
Physical properties and others	Power consumption	350W		350W	
	IP classification	IP54		IP54	
	Tool I/O Ports	Digital input 2		Digital input 2	
		Digital output 2		Digital output 2	
Analog input 1		Analog input 1			
Base diameter	158mm		158mm		
Electrical cabinet	IP classification	IP44			
	I/Oports	16 digital inputs, 16 digital outputs, 2 analog inputs or outputs			
	Communication	TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP			
	Power	100-240VAC, 50-60Hz			
	Size	410×307×235 (mm) (W×H×D)			
	Weight	15.4kg			

JAKA Lens 2D

JAKA Lens 2D

Product description

JAKA Lens 2D integrated camera adopts 2D high-resolution industrial camera, and is equipped with a special light source module and optional camera lens to provide users with comprehensive functions and experience of 2D vision. After professional industrial design, it is small and lightweight, and has a delicate appearance. It can realize 2D vision function by external fixed installation or by installing it at the end of the robot.



<p>Flexible and convenient</p> <p>Optional lens installation Flexible adaptation to various scenarios</p>	<p>Customizable</p> <p>Drag-and-drop process programming Various functions are freely matched</p>	<p>High integration</p> <p>Software and hardware integration Easy and fast deployment</p>
--	--	--

Product Features

<p>Integrated design</p> <p>A 2D camera that integrates three major modules of camera, lens, and light source, an integrated robot control cabinet that integrates a vision system, and access to the vision system through a web page.</p>	<p>Easy operation</p> <p>The control cabinet is embedded with intelligent vision algorithms, process-guided project editing, one-button automatic hand-eye calibration, and flexible communication interfaces to adapt to the robot body.</p>	<p>Scenario-adaptable</p> <p>Supports hardware parameter selection of multiple models, supports third-party brand camera extensions, supports custom external light sources, and is suitable for as many application scenarios as possible.</p>
--	--	--

Visual parameters

Lens 2D parameter	Lens 2D CGC500-F08	Lens 2D CGC500-F16
Resolution	2592×1944	2592×1944
Max frame rate	24fps	24fps
Data interface	Gige	Gige
Color mode	Black and white / color	Black and white / color
Lens focal length	8mm	16mm
Object distance	>100mm	>100mm
Vision	>70×50mm	>35×25mm
Precision	>0.08mm	>0.04mm
Image Processing	Soft-trigger image acquisition, single frame processing time within 1s	Soft-trigger image acquisition, single frame processing time within 1s

JAKA Lens VPS

Product description

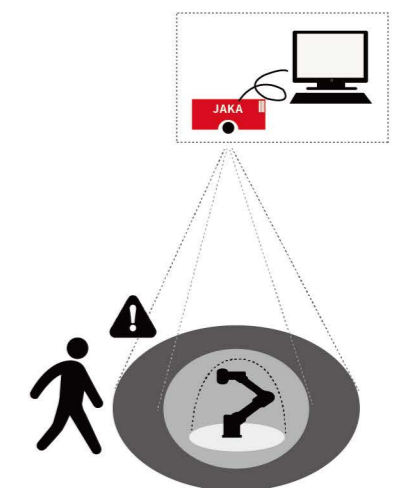
JAKA Lens VPS 2.0 is developed based on high-performance AI-SoC chip, equipped with high-speed and large-capacity memory and storage space, and embedded with high-performance acceleration engine, which can realize target detection, object recognition, human pose feature point extraction, behavior understanding, target state AI functions such as detection. The camera is placed above the work of the robot, and the camera can monitor the behavioral norms or intrusions of the inspected objects (people and objects) in real time based on deep learning to ensure the safety of robots and people. The camera has a Gigabit Ethernet port, which supports industrial data extraction and video visualization processing, as well as video recording during alarm periods.



<p>High reliability</p> <p>Isolate external factors The protection effect is stable and reliable</p>	<p>High performance</p> <p>High speed combined with high storage capacity</p>	<p>High convenience</p> <p>No complicated software installation required Browse the web for easy access</p>
---	--	--

Product Features

- Built-in neural network accelerator for AI recognition and analysis of video understanding
- Event recording function, which can record key video segments, eliminate redundant information, trace back, and analyze more conveniently
- Plug and play, no need to install software, browser access settings
- It can detect AI functions such as helmet wearing, personnel target tracking, personnel labor intensity, and video scoring calculation



Visual protection system working diagram

Basic parameters

Hardware platform	CMOS camera, embedded system, DSP, AI engine, etc.
Dimensions	101.7mm×72mm×51.1mm
Installation method	Directly above, sideways (any angle)
Communication Interface	Ethernet interface, RS485, PNP optocoupler isolation DI and DO

Visual parameters

Resolving power	830 w pixels
Response time	200 ms
Installation height	2.5 m (suggested)
Scope of protection area	5 m*2.6 m (adjustable)


JAKA MiniCobo

Product introduction


The JAKA MiniCobo robot adopts an intelligent control and drive control module, which has both lightweight design and superior product performance. At the same time, the rich secondary development interface creates infinite possibilities for the development of more scenarios.

The JAKA MiniCobo has small and round appearance, simple and intuitive operation, almost no noise and good performance. The JAKA MiniCobo has been widely used in consumption, service, education, new retail, and other fields.






Commercial



Cost-effective



Lightweight



Weight
9.4kg



Payload
1.0kg



Working radius
580mm



Repeatability
±0.1mm

Application case



Product Features	Product model	MiniCobo	
		Payload	1kg
	Weight(W cable)	9.4kg	
	Work radius	580mm	
	Repeatability	±0.1mm	
	Axis	6 axes	
	Programming	Graphical programming, free-drive	
	Teach pendant	MT (PAD/Mobile) APP	
	Collaborative operation	Accordance with GB 11291.1-2011	
Working range and speed	Robot joint	Working range	Maximum speed
	Joint1	±360°	180°/s
	Joint2	±120°	180°/s
	Joint3	±150°	180°/s
	Joint4	±360°	180°/s
	Joint5	±120°	180°/s
	Joint6	±360°	180°/s
	Maximum speed of the tool end	/	1.5m/s
Physical properties and others	Rated power	150W	
	Temperature range	0-50°C	
	IP Specification	IP40	
	Installation	Installation at any angle	
	Tool I/O	Digital input 2	
		Digital output 2	
		Analog input 1	
	Tool I/O power	24DC	
	Tool I/O size	M8	
	Materials	Aluminum, PC	
	Base diameter	124mm	
Cable length	6m		
Electrical cabinet	Device	20-60VDC	
	Iout	≤40A	
	Size	180×128×47(mm)(L×W×H)	
	IP Level	IP20	
	I/O	7 Digital input: I/O configurable	
	I/O Power	24VDC	
	Fixed Form	Panel/Guide Rail	
	Interface	TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP	
	Weight	1.1kg	
	Material	AL, Steel	