

JAKA





- JAKA becomes a global company with over 200 international customers.
- JAKA establishes strategic partnerships with leading automotive and electronics companies.
- Recognized as a "Technology Giant" by the Science and Technology Commission of Shanghai Municipality.
- JAKA opens its Shenzhen office.
- >>> Series B funding completed.



- JAKA opens its R&D centre in Japan.
- Series C funding completed.



- Global expansion begins with investment in a sales team for international markets.
- JAKA opens its European headquarters in Germany.

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JAKA

Product Matrix

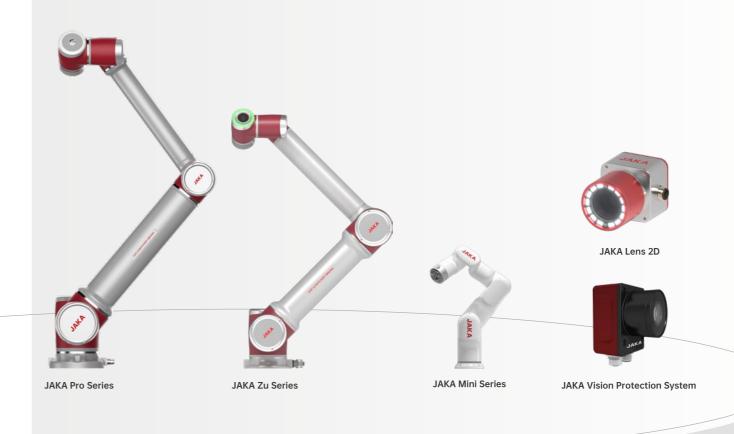


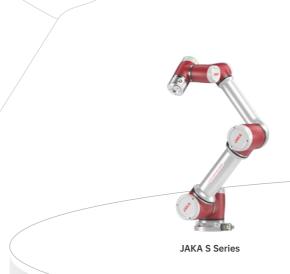




Flexible • Intelligent

Adapting to various application scenarios to meet the needs of all industries





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No Teach Pendant

Operating JAKA collaborative robots does not require a traditional teach pendant. It can be easily carried out via a tablet, smartphone, or PC, offering great flexibility.



Wireless Connection

With wireless connectivity, communicating with and assigning tasks to a cobot is effortless. No more wires! Enjoy a cleaner, safer workspace with JAKA cobots.



Safe Human-Robot Collaboration

JAKA cobots are designed for safe interactions with humans - no safety fence required - thanks to collision detection, enabled by a built-in torque feedback module. Users can adjust flexibility, so that even the lightest bump will cause the cobot to stop, preventing harm.



Graphical Programming

Program effortlessly on any graphical device – PC, tablet, or phone. The intuitive software requires no prior programming experience, allowing anyone to easily set and adjust positions and tasks.



Drag Teaching

Users and integrators can deploy a cobot in minutes using drag teaching. Simply move the cobot to any position, and it will instantly memorize it.



Plug-and-Play

A few minutes is all it takes to install JAKA cobots. Whether on a horizontal or a vertical surface, they are easy to mount and ready to go. Flexible and lightweight, the cobots are compatible with a wide range of grippers and end effectors. This plug-and-play design allows users to quickly deploy and re-deploy in any production environment.

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JAKA Zu Series



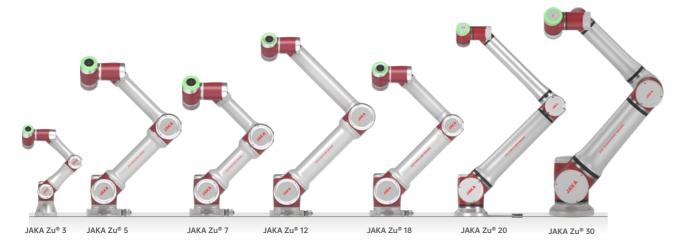
Plug and play setup, convenient deployment, flexible production.

Intelligent

Flexible, intelligent, easy to operate, and efficient in collaboration.

Specialized

Built for reliable performance in various high-precision collaborative tasks.





JAKA S Series

74 **Highly Sensitive**

Optimized drag teaching for superior precision and control.



Simple app setup with realtime force value display.



Multiple force control modes with consistent force accuracy.



Full-arm collision detection self-learning monitoring.





JAKA Pro Series



Exceptional Durability

Industry's highest IP68 protection level - fully resistant to oil and dust.



Reduced Maintenance

High-precision, low-maintenance design for worry-free production.



Enhanced Efficiency

Fast, intelligent operation with seamless and safe integration.





JAKA Mini Series



Business-Ready

Compact, low-noise design. Ideal for hospitality, education, retail, and services.



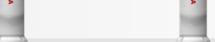
Lightweight

Weighing under 10 kg, it offers exceptional portability and convenience.



Helps achieve high-quality results with a low initial investment.

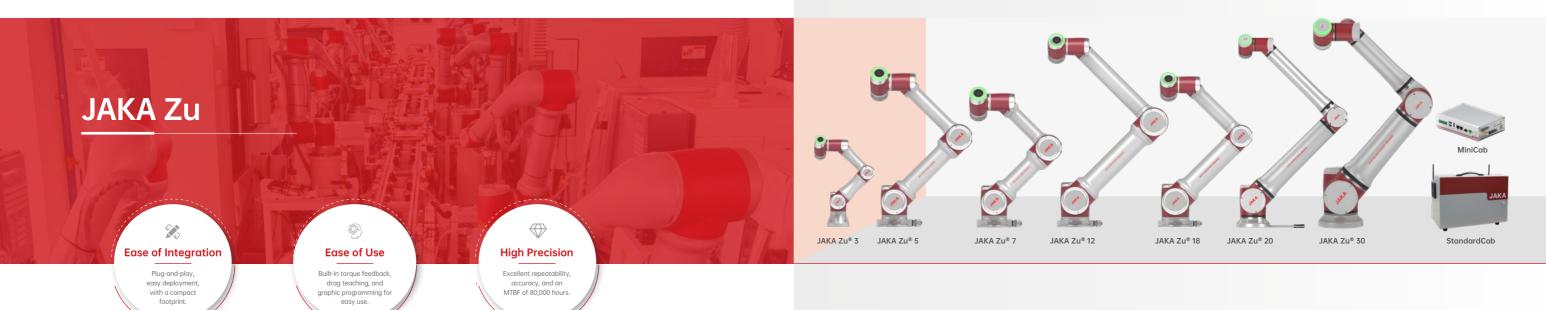




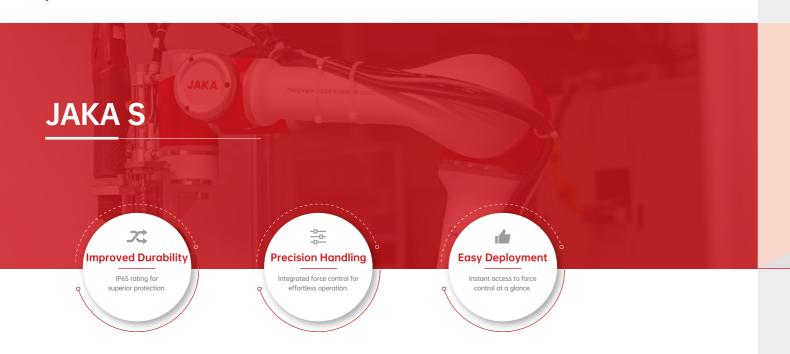
JAKA MinCobo

JAKA Mini 2

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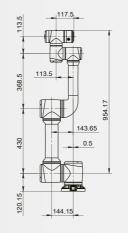
	Product parameters	JAKA	Zu [®] 3	JAKA	Zu [®] 5	JAKA	Zu® 7	JAKA	Zu [®] 12	JAKA	Zu® 18	JAKA	Zu [®] 20	JAKA	Zu [®] 30
	Maximum payload	3	kg	5	kg	7	kg	12	2 kg	18	kg	20) kg	30) kg
	Weight	12 kg		23 kg		22 kg		41 kg		35 kg		68 kg		65 kg	
Product	Reach	626 mm		954 mm		819 mm		1327 mm		1073 mm		1780 mm		1350 mm	
features	Accuracy	±0.02 mm		±0.02 mm		±0.02 mm		±0.03 mm		±0.03 mm		±0.05 mm		±0.05 mm	
	Number of axis	6		6		6		6		6		6		6	
	Programming	Drag teaching and graphic programming		Drag teaching and graphic programming		Drag teaching and graphic programming		Drag teaching and graphic programming		Drag teaching and graphic programming		Drag teaching and graphic programming		Drag teaching and graphic programming	
	Teach pendant	PC, mobile (PAD/mobile)	PC, mobile	(PAD/mobile)	PC, mobile	(PAD/mobile)	PC, mobile	(PAD/mobile)	PC, mobile	(PAD/mobile)	PC, mobile	(PAD/mobile)	PC, mobile	(PAD/mobile)
	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	Working range	Maximum speed
	Joint 1	±360°	180°/s	±360°	180°/s	±360°	180°/s	±360°	120°/s	±360°	120°/s	±360°	120°/s	±360°	120°/s
	Joint 2	-85°,+265°	180°/s	-85°,+265°	180°/s	-85°,+265°	180°/s	-85°,+265°	120°/s	-85°,+265°	120°/s	-85°,+265°	120°/s	-85°,+265°	120°/s
Marramant	Joint 3	±175°	180°/s	±175°	180°/s	±175°	180°/s	±175°	120°/s	±175°	180°/s	±175°	120°/s	±175°	120°/s
Movement	Joint 4	-85°,+265°	220°/s	-85°,+265°	180°/s	-85°,+265°	180°/s	-85°,+265°	180°/s	-85°,+265°	180°/s	-85°,+265°	220°/s	-85°,+265°	220°/s
	Joint 5	±360°	220°/s	±360°	180°/s	±360°	180°/s	±360°	180°/s	±360°	180°/s	±360°	220°/s	±360°	220°/s
	Joint 6	±360°	220°/s	±360°	180°/s	±360°	180°/s	±360°	180°/s	±360°	180°/s	±360°	220°/s	±360°	220°/s
	Maximum linear speed	1	1.5 m/s	1	3 m/s	1	2.5 m/s	1	3 m/s	/	3.5 m/s	1	1.5 m/s	1	4.2 m/s
	Nominal power consumption	n 150 W		35	0 W	35	0 W	50	00 W	60	0 W	75	0 W	75	0 W
	IP classification	IP54		IP54		IF	54	IF	P54	IF	54	IP65		IP65	
Considerations		Digital input 2		Digital input 2		Digital	input 2	Digital	l input 2	Digital	input 2	Digital input 2		Digital input 2	
Specifications	Tool end I/O interface	Digital o	output 2	Digital	output 2	Digital	output 2	Digital	output 2	Digital	output 2	Digital	output 2	Digital	output 2
	Analog input 1		Analog	Analog input 1 Analog input 1		Analog input 1 Analog		Analog input 1 Analog input 1		Analog input 1					
	Base diameter	129	mm	158	mm	158	mm	188	3 mm	188	mm	246	mm	246	mm
Electrical cabinet	IP classification	IP44		IP44 IP44		44	IP44		IP44		IP44		IP44		
	I/O ports	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		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		TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP		TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP	
	Power	100-240 VAC, 50-60 Hz		100-240 VAC, 50-60 Hz		100-240 VAC, 50-60 Hz		100-240 VAC, 50-60 Hz		100-240 VAC, 50-60 Hz		100-240 VAC, 50-60 Hz		100-240 VAC, 50-60 Hz	
	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)		410×307×235 mm (W×H×D)		410×307×235 mm (W×H×D)	
	Weight	13.5	5 kg	15.4 kg		15.	15.4 kg 18 kg		3 kg	18 kg		18 kg		18	kg

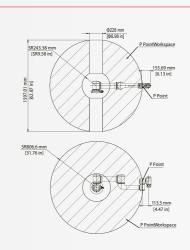


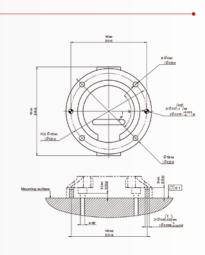
	Product parameters	JAK	A S 5	JAK <i>A</i>	\ S 12	
	Maximum payload	5	kg	12 kg		
Product	Reach	954	mm	1327 mm		
features	Number of axis	(6	6		
	Nominal power consumption	35	0 w	500 w		
	Operational temperature		-10~:	50°C		
	Force/torque sensor	Force, x-y-z	Torque, x-y-z	Force, x-y-z	Torque, x-y-z	
Force/torque	Measurement range	200 N	24 Nm	400 N	48 Nm	
sensor	Max force/torque limit	3000 N	300 Nm	3000 N	300 Nm	
performance	Accuracy of maximum range	1% F.S.	1% F.S.	1% F.S.	1% F.S.	
	Force/torque resolution	0.1 N	0.1 Nm	0.1 N	0.1 Nm	
	Typical TCP speed	1 m/s	1	1 m/s	1	
	Accuracy	±0.02 mm	1	±0.03 mm	1	
	Robot joint	Working range	Maximum speed	Working range	Maximum speed	
	Joint 1	±360°	180°/s	±360°	120°/s	
Movement	Joint 2	-85°~ +265°	180°/s	-85°~ +265°	120°/s	
	Joint 3	±175°	180°/s	±175°	120°/s	
	Joint 4	-85°~+265°	180°/s	-85°~+265°	180°/s	
	Joint 5	±360°	180°/s	±360°	180°/s	
	Joint 6	±360°	180°/s	±360°	180°/s	
	IP classification	IP	65	IP	65	
	Robot mounting angle	Any orie	entation	Any orientation		
	Base diameter	158	mm	188 mm		
Specfications	Materials	Alumin	ium, PC	Aluminium, PC		
	Robot connection cable length	6	m	6 m		
	Weight	23	kg	41 kg		
	Humidity		10~90	% RH		



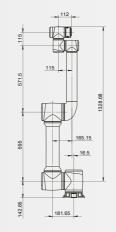
JAKA S 5 Drawings

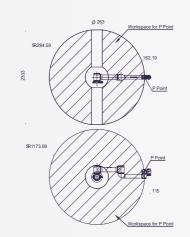


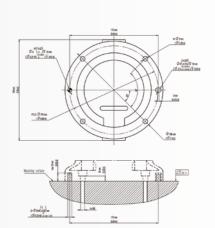




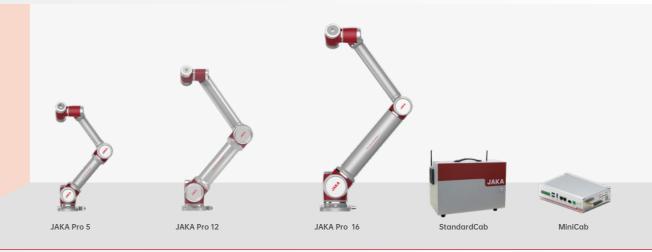
JAKA S 12 Drawings











	Product parameters		JAKA Pro 5		JAKA Pro 12		JAKA Pro 16	
	Maximum payload	Maximum payload			12 kg		16 kg	
	Weight	23.5 kg		41 kg		74 kg		
Product features	Reach	954 mm			1327 mm		1713 mm	
Product redtures	Accuracy	±0.02 mm			±0.02 mm		±0.02 mm	
	Number of axis	6		6		6		
	Programming	Drag te	eaching and graphic programming	Drag teaching and graphic programming		Drag teac	hing and graphic programming	
	Teach pendant	PC, mobile (PAD/mobile)		Р	PC, mobile (PAD/mobile)		PC, mobile (PAD/mobile)	
	Robot joint	Working range	Maximum speed	Working range	Maximum speed	Working range	Maximum speed	
	Joint 1	±360°	180°/s	±360°	120°/s	±360°	120°/s	
	Joint 2	-85°,+265°	180°/s	-85°,+265°	120°/s	-85°,+265°	120°/s	
Movement	Joint 3	±175°	180°/s	±175°	120°/s	±175°	120°/s	
Movement	Joint 4	-85°,+265°	180°/s	-85°,+265°	180°/s	-85°,+265°	180°/s	
	Joint 5	±360°	180°/s	±360°	180°/s	±360°	180°/s	
	Joint 6	±360°	180°/s	±360°	180°/s	±360°	180°/s	
	Maximum linear speed	1	3 m/s	1	3 m/s	1	3.9 m/s	
	Nominal power consumption		350 W		500 W		750 W	
	IP classification	IP68			IP68		IP68	
Specifications		Digital input 2			Digital input 2	Digital input 2		
Specifications	Tool end I/O interface	Digital output 2		Digital output 2		Digital output 2		
		Analog input 1		Analog input 1		Analog input 1		
	Base diameter		158 mm		188 mm		246 mm	
	IP classification	IP44		IP44		IP44		
	I/O ports	16 digital inputs, 1	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	
Electrical	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		
cabinet	Power	100-240 VAC, 50-60 Hz		100-240 VAC, 50-60 Hz		100-240 VAC, 50-60 Hz		
	Size		410×307×235 mm (W×H×D)	410	410×307×235 mm (W×H×D)		410×307×235 mm (W×H×D)	
	Weight		15.4 kg		18 kg		18 kg	

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JAKA Mini

Product description \(\square\$

The JAKA Mini Series includes our most lightweight and compact collaborative robots, designed for quick setup and seamless integration into a wide range of work environments. They offer strong performance and flexibility with simple tools for customization.

With their small footprint, quiet operation, and sleek look, robots in the Mini Series are perfect for industries like education, retail, and services. Their budget-friendly design makes them an ideal entry point for businesses looking to start their automation journey.







Weight

<10 kg



Payload

1-2 kg





580 mm









Application scenarios >











	Product parameters	JAKA MiniCobo	JAKA Mini 2				
	Maximum payload	1 kg	2 kg				
	Weight (including cables)	9.4 kg	9.9 kg				
	Reach	580 mm	580 mm				
Product features	Accuracy	±0.1 mm	±0.1 mm				
	Number of axis	6					
	Programming	Drag teaching and gr	raphic programming				
	Teach pendant	Mobile terminal (compu	ter/pad/mobile phone)				
	Collaborative operation	Collaborative operation as ISO 10218-1: 2011					
	Robot joint	Working range					
	Joint 1	±36	0°				
	Joint 2	±12	5°				
	Joint 3	±13	0°				
Movement	Joint 4	±36	0°				
	Joint 5	±12	0°				
	Joint 6	±36	0°				
	Typical TCP speed	1 m	n/s				
	Nominal power consumption	150 W	180 W				
	Rated voltage	24 VDC	48 VDC				
	Operational temperature	0-50°C	0-50°C				
	IP classification	IP40	IP40				
	Robot mounting angle	Any orie	ntation				
		Digital input 2					
Specifications	Tool I/O interface	Digital output 2					
		Analog input 2					
	Tool I/O power	24 VDC					
	Tool I/O size	M	8				
	Materials	Aluminum, PC					
	Base diameter	124 mm					
	Cable length	6 m					
	Power input	20-60 VDC					
	I-Out	≤40 A					
	Size	180×128×47 mm (L×W×H)					
	IP classification	IP20					
Electrical	1/0	7 digital inputs: I/O configurable					
cabinet	I/O Power	24 VDC					
	Installation	Panel/Guide Rail					
	Communication	TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP					
	Weight	1.1 kg					
	Materials	Aluminur	m, Steel				

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JAKA Lens 2D



Vision system for easy adaptation to different scenarios.



Customizable

Drag-and-drop programming with flexible function combinations for tailored inspections.



Easy Integration

Seamless software and hardware integration for quick and easy deployment.



Product description

The JAKA Lens 2D is a high-resolution camera with adjustable lighting designed for clear 2D image capture. It allows real-time imaging with the flexibility to control the light source.

With features like automatic target recognition, visual positioning, and easy calibration, the system is simple to set up and operate for various image processing needs.

Lens 2D parameter	Lens 2D CGC500-F08	Lens 2D CGC500-F16
Resolution	2592×1944	2592×1944
Max frame rate	24 fps	24 fps
Data interface	GigE	GigE
Color mode	Black and white / color	Black and white / color
Lens focal length	8 mm	16 mm



JAKA Lens VPS



High Reliability

Effectively isolates external factors. Provides stable and consistent protection.



High Performance

Combines high-speed with large storage capacity. Features an embedded acceleration engine for enhanced performance.



High Convenience

No complex software installation required. Easily accessible through a standard web browser.



Product description

The JAKA virtual protection system uses an industrial wide-angle camera and a vision system from JAKA and is directly connected to the cobot controller. The camera is placed above the robot's working area to monitor the working scene. If an external object (a person or a device) enters the monitoring area, the camera system detects the interference and sends instructions to the robot to take appropriate safety measures to ensure the safety of man and machine.

Lens VPS parameter	JAKA Lens Virtual Protection System			
Resolution	820 w Pixel			
Response time	200 ms			
Installation height	2.5 m (suggested) GigE			
Scope of protection area	5 m × 2,6 m (adjustable)			
Installation mode	Directly above, side (any angle)			



JAKA StandardCab



Seamless Integration

Meets the operational needs of full-load models.



Adaptable

Equipped with extensive I/O's and industrial communication interfaces.

Smart Connectivity

Integrated industrial multi-protocol control module.

Product description \(\square\$

The JAKA StandardCab is a durable robot controller designed for seamless operation and communication with JAKA collaborative robots. It features an integrated wireless network module for mobile deployment and connectivity. Compatible with all JAKA cobots, it supports multiple device interfaces and industrial protocols, enabling integration with various equipment, including 3D vision systems, photoelectric sensors, conveyor belts, and laser scanners—offering a flexible and versatile automation solution.

Parameters	JAKA StandardCab				
IP rating	IP44				
IO Interfaces	16 digital inputs, 16 digital outputs, 2 analog inputs or outputs				
Power supply (internal)	24 V				
Communication	TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP				
Power supply	100-240 V AC, 50-60 Hz				
Cabinet size	410×307×235 mm (WxHxD)				
Weight	13 kg				
Material	Plastic sprayed carbon steel plate				



JAKA MiniCab



Compact mini control cabinet for efficient use of space.



Compatible with majority of JAKA collaborative robots.



Designed for easy transport and mobile use.



Product description >

The industry's smallest robot controller, weighing only 1.1 kg, supports a wide DC input power range, is compatible with various models and power loads, features an integrated wireless network module, and is ideal for mobile platforms like AGVs or industrial electrical cabinets.

Parameters	JAKA MiniCab		
Input power / current	DC30-60 V / ≤40 A		
Controller size	180×28×47 mm (LxW×H)		
IP rating	IP20		
IO Ports	7-way port; Input and output configurable		
Power supply (internal)	DC 24 V		
Installation method	Panel / guide rail		
Communication	TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP		
Weight	About 1.7 kg (including accessories)		
Material	Aluminum alloy, steel		

Flexible Programming of JAKA Robots

Whether you're a seasoned robotics engineer or new to automation, JAKA makes programming effortless and efficient. With numerous versatile programming options – ranging from intuitive drag-and-drop interfaces to advanced coding flexibility – we cater to diverse industries, applications, and skill levels. No matter your expertise, JAKA ensures a seamless programming experience, allowing you to focus on optimizing productivity.









TCP/IP

JAKA supports an external control protocol based on TCP/IP, offering a comprehensive set of interfaces that enable customers to control the robot and retrieve information.

- Ideal For: Programming environments with TCP server structure.
- **Key Features:** TCP server on the robot controller to receive specific commands and provide feedback status data.



JAKA SDK (Software Development Kit)

JAKA SDK is a comprehensive toolkit designed for developers and skilled system integrators to efficiently build applications for collaborative robots.

- Ideal For: Advanced users, software developers, and integrators.
- **Key Features:** The SDK communicates with the robot over TCP/IP and is available as a library for C/C++, C#, and Python.



Offline Programming

The JAKA Virtual Machine, along with third-party software like RoboDK, offers an efficient solution for programming without a physical robot: create, simulate, and test programs in a virtual environment before deployment.

- Ideal For: Environments where downtime must be minimized, or where a physical connection to the robot is unavailable, such as training and education settings.
- **Key Features:** Connect the JAKA Zu[®] App to the virtual machine using an IP address. The virtual machine can also be operated through TCP-IP and the JAKA SDK, with these functions also available via third-party software.



JAKA Zu® App

The JAKA Zu App is our user-friendly programming platform based on the widely used programming language Scratch. Designed for simplicity, it allows users to program JAKA cobots through an intuitive drag-anddrop interface on tablets or smartphones.



- Ideal For: Beginners and operators with minimal programming experience.
- Key Features: Visual programming, real-time control, large variety of drag-and-drop commands.



Drag & Teach

With JAKA's direct teaching feature, users can simply guide the ro-bot arm through desired movements to program tasks. This intuitive method reduces the learning curve and accelerates setup time.

- Ideal For: Quick setups and repetitive tasks.
- Key Features: Effortless task recording with a few guided movements, no prior programming knowledge required



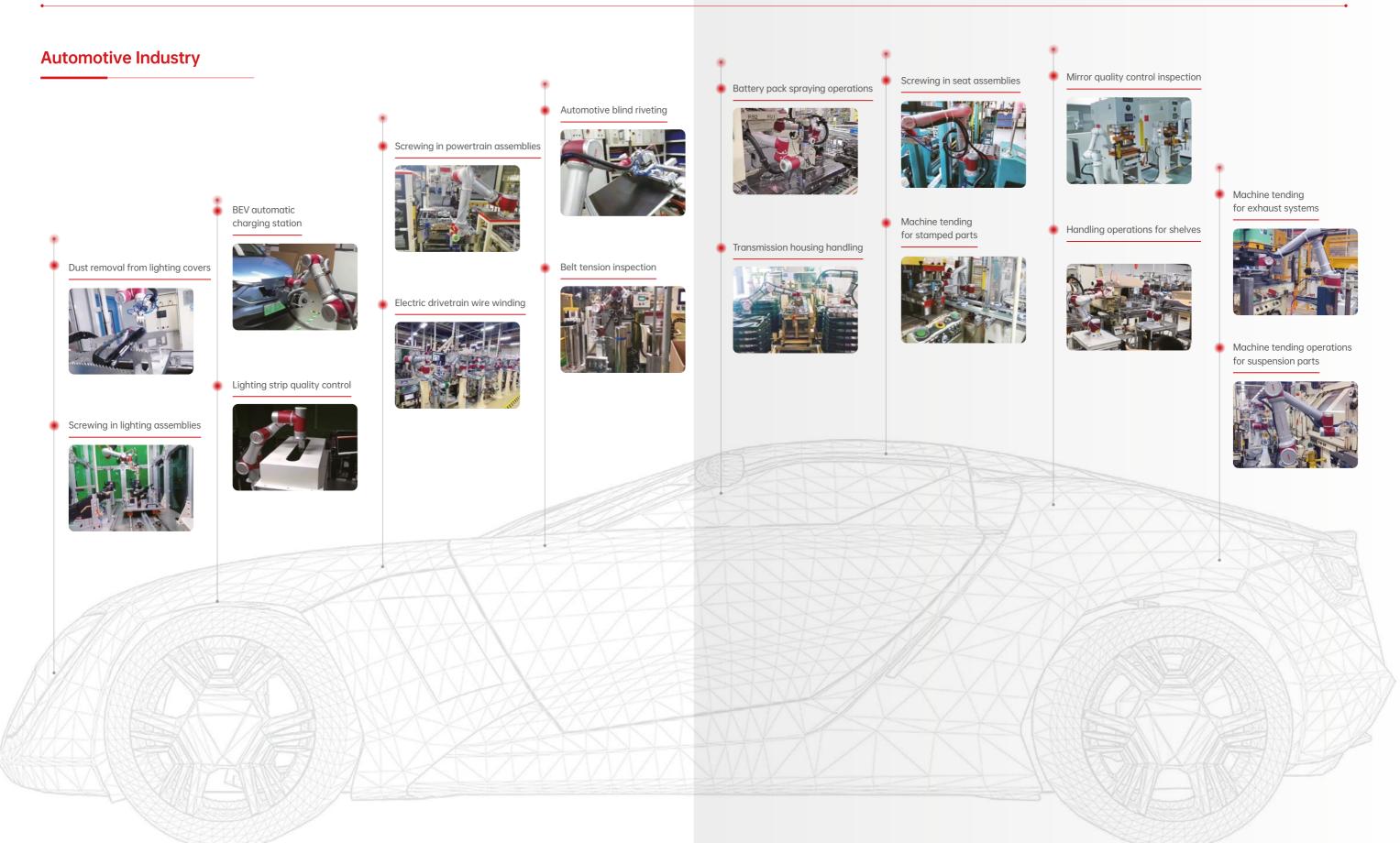
SRCI (Standard Robot Communication Interface)

SRCI enables seamless integration of JAKA cobots into PLC automation using standard Profinet protocols. It is designed for industries that require robust and reliable connectivity.

- Ideal For: Technicians with prior experience on SIMATIC hardware and software.
- Key Features: The use of SIMATIC Robot Integrator via TIA Portal.







Electronics / Semiconductor Industry



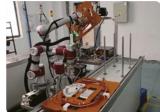
CNC Machine tending with AGV/Robot



Power module coating



Scanning and inspection of battery packs



Soldering





Visual inspection on smartphones



Buzzer detection



Handling operations during product assembly



Glue residue removal in earbuds





Quality inspection for smartwatches



Quality inspection for semiconductor parts



Gluing operations on PCB boards



Laser etching for electronics



Screwing operations on lamp



Assembly with dual arms



Blanking operations on PCBs



Sandblast cleaning operations



Gluing operations on PCs



Protective film removal



Handling operation on PCB boards

Other Industrial and Commercial Sectors

Manufacturing







A Renewable Energy





🛱 Electrical Appliances















Food & Beverage

















Hospitality











jaka.com

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