

PRODUCT SELECTION GUIDE

Global Leader in General Intelligent Robots

JAKA

www.jaka.com | 🔍

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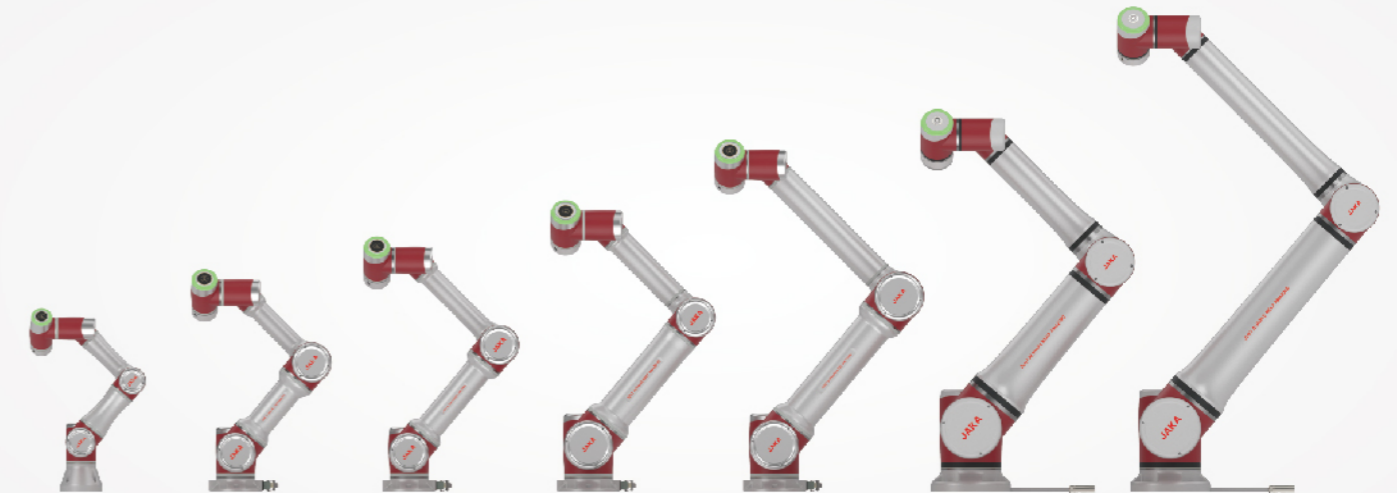
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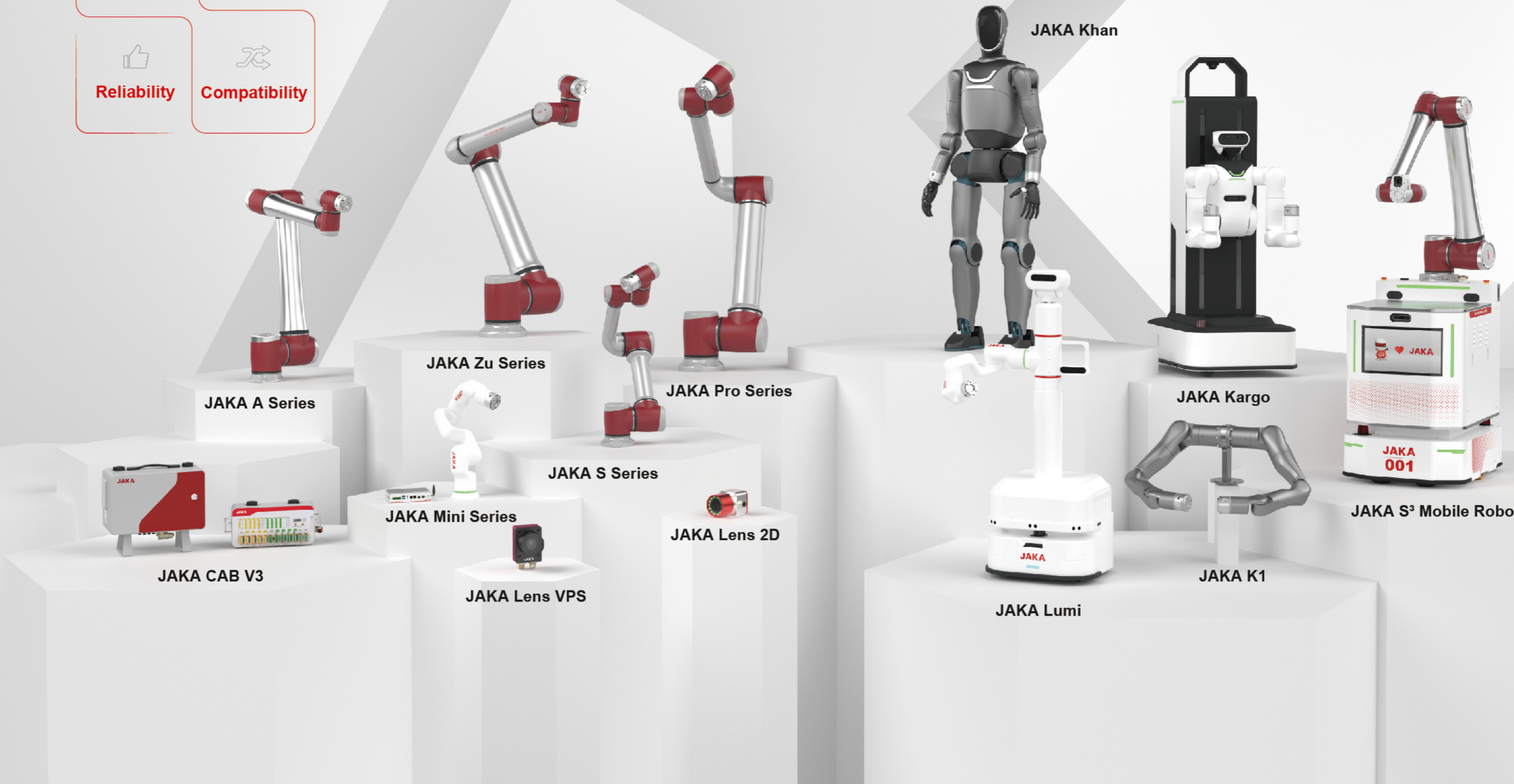


Product Matrix

-  **Ease of Use**
-  **Safe**
-  **Reliability**
-  **Compatibility**

Collaborative & Embodied AI Robots

Fulfills the requirements of all types of industrial solutions



JAKA A Series

JAKA Zu Series

JAKA Pro Series

JAKA S Series

JAKA Mini Series

JAKA Lens 2D

JAKA Lens VPS

JAKA CAB V3

JAKA Khan

JAKA Lumi

JAKA Kargo

JAKA K1

JAKA S³ Mobile Robot

No Teaching Pendant

Programming JAKA collaborative robots is made easy with our JAKA APP, available for Android and Windows devices. Traditional teaching pendants are no longer necessary.

Wireless Connection

Say goodbye to messy wires! JAKA cobots can now communicate and receive task assignments via their own WiFi connection, leaving you with a clean and safe workspace.

Safe Human-robot Collaboration

JAKA cobots are designed to work safely alongside humans, without the need for a safety fence, thanks to their collision detection module. Even the slightest bump can be detected, allowing the cobot to react and avoid causing harm.



Graphical Programming

Our intuitive graphic programming software interface is designed for anyone to use, regardless of prior programming experience. Setting positions and tasks is a breeze with our user-friendly interface.

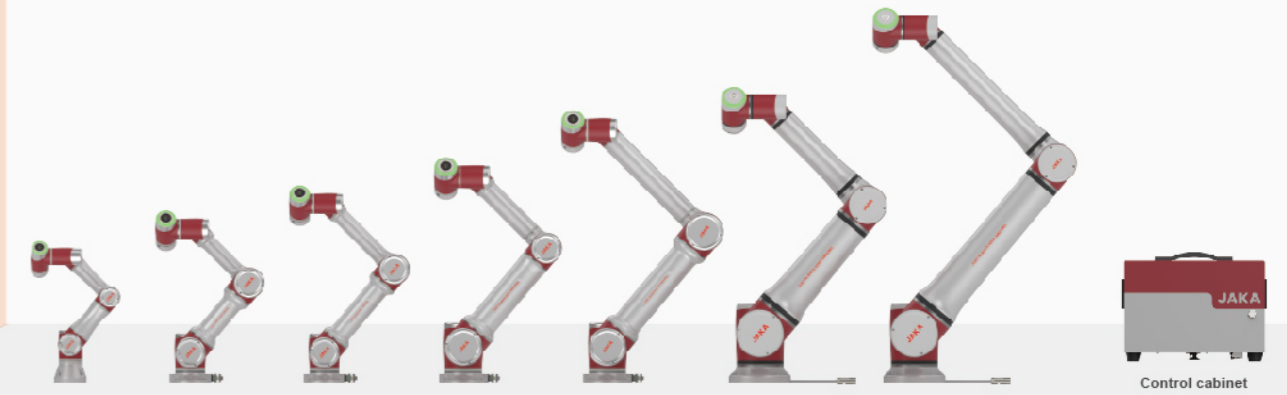
Drag Teaching

With our drag teaching function, users can deploy a cobot in just a few minutes. Simply move the cobot to any desired position, and it will instantly memorize it.

Plug-and-play

Install a JAKA cobot in just a few minutes, and mount it in any position or inclination. Our cobots are lightweight and are compatible with a wide range of grippers and end effectors. This makes them highly versatile and able to be deployed and re-deployed in any production environment.

JAKA Zu Series



Easy to Install

Plug-and-play
Simple deployment
Small footprint

Easy to Use

In-built torque feedback module
Drag teaching
Graphic programming

Built for Every Task

Excellent repeatability
Great precision
MTBF 80,000 hours

	Parameter	JAKA Zu3		JAKA Zu5		JAKA Zu7		JAKA Zu12		JAKA Zu18		JAKA Zu20		JAKA Zu30																																																																																																											
		Basic Parameter		Payload	3 kg (6.6 lb)	5 kg (11 lb)	7 kg (15.4 lb)	12 kg (26.4 lb)	18 kg (39.6 lb)	20 kg (44.1 lb)	30 kg (66.1 lb)	Weight (including cables)	12 kg (26.46 lb)	23 kg (50.71 lb)	22 kg (48.50 lb)	41 kg (90.39 lb)	35 kg (77.16 lb)	68 kg (149.9 lb)	65 kg (143.3 lb)	Reach	626 mm (24.64 in)	954 mm (37.5 in)	819 mm (32.2 in)	1327 mm (52.2 in)	1073 mm (42.24 in)	1780 mm (70.1 in)	1350 mm (53.1 in)	Repeatability	±0.02 mm (±0.00079 in)	±0.02 mm (±0.00079 in)	±0.02 mm (±0.00079 in)	±0.03 mm (±0.00118 in)	±0.03 mm (±0.00118 in)	±0.05 mm (±0.00120 in)	±0.05 mm (±0.00120 in)	Degree of freedom	6	6	6	6	6	6	6	Programming	Graphical programming, and freedrive programming																																																																												
		Demonstrator type	Mobile terminal (computer/pad/mobile phone)																																																																																																																						
Movement		Joint	Range of action	Joint speed	Range of action	Joint speed	Range of action	Joint speed	Range of action	Joint speed	Range of action	Joint speed	Range of action	Joint speed	Range of action	Joint 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	Joint 3	±175°	180°/s	±175°	180°/s	±175°	180°/s	±175°	120°/s	±175°	180°/s	±175°	120°/s	±175°	120°/s	Joint 4	-85°~+265°	220°/s	-85°~+265°	180°/s	-85°~+265°	180°/s	-85°~+265°	180°/s	-85°~+265°	180°/s	-85°~+265°	180°/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	Tool typical speed	/	1 m/s (3.281 ft/s)	/	1 m/s (3.281 ft/s)	/	1 m/s (3.281 ft/s)	/	1 m/s (3.281 ft/s)	/	1 m/s (3.281 ft/s)	/	1.5 m/s (4.921 ft/s)	/	1 m/s (3.281 ft/s)
Specifications		Typical consumption	150W		350W		350W		500W		500W		750W		750W		IP classification	IP54		IP54		IP54		IP54		IP65		IP65		Tool I/O ports	2 digital inputs		2 digital inputs		2 digital inputs		2 digital inputs		2 digital inputs		2 digital inputs		2 digital inputs		2 digital outputs		2 digital outputs		2 digital outputs		2 digital outputs		2 digital outputs		2 digital outputs		2 analog inputs		2 analog inputs		2 analog inputs		2 analog inputs		2 analog inputs		2 analog inputs		Footprint	129 mm (5.079 in)		158 mm (6.220 in)		158 mm (6.220 in)		188 mm (7.402 in)		188 mm (7.402 in)		246 mm (9.685 in)		246 mm (9.685 in)																																							
Control cabinet		IP classification	IP44		IP44		IP44		IP44		IP44		IP44		IP44		I/O ports	16 digital inputs, 16 digital outputs, 2 analog inputs or outputs														Communication mode	TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP														Power supply	100-240VAC, 50-60Hz		100-240VAC, 50-60Hz		100-240VAC, 50-60Hz		100-240VAC, 50-60Hz		100-240VAC, 50-60Hz		100-240VAC, 50-60Hz		100-240 VAC, 50-60Hz		Size	410*307*235 mm (16.14*12.09*9.25 in)		410*307*235 mm (16.14*12.09*9.25 in)		410*307*235 mm (16.14*12.09*9.25 in)		410*307*235 mm (16.14*12.09*9.25 in)		410*307*235 mm (16.14*12.09*9.25 in)		410*307*235 mm (16.14*12.09*9.25 in)		410*307*235 mm (16.14*12.09*9.25 in)		Weight	13.5 kg (29.762 lb)		15.4 kg (33.95 lb)		15.4 kg (33.95 lb)		18 kg (39.68 lb)		18 kg (39.68 lb)		18 kg (39.68 lb)		18 kg (39.68 lb)																															

JAKA New-Gen Zu Series

Easy to Install

- Plug-and-play
- Simple deployment
- Small footprint

Easy to Use

- In-built torque feedback module
- Drag teaching
- Graphic programming

Built for Every Task

- High payload & Long reach
- Excellent repeatability
- Fast communication



Parameter	JAKA Zu15		JAKA Zu35		
	Rated Payload	15 kg		35 kg	
Weight	38 kg		115 kg		
Reach	1400 mm		2000 mm		
Repeatability	±0.03 mm		±0.05 mm		
Degree of freedom	6		6		
Programming	Graphical Programming, Drag Teaching		Graphical Programming, Drag Teaching		
Teach Pendant Type	Mobile Devices (PC, Tablet, Smartphone)*		Mobile Devices (PC, Tablet, Smartphone)*		
Movement	Robot Arm	Range	Max. Speed	Range	Max. Speed
	Joint 1	±360°	190°/s	±360°	150°/s
	Joint 2	-85°~+265°	190°/s	-85°~+265°	150°/s
	Joint 3	±168°	210°/s	±165°	180°/s
	Joint 4	±360°	210°/s	±360°	300°/s
	Joint 5	±360°	210°/s	±360°	300°/s
	Joint 6	±360°	210°/s	±360°	300°/s
Max. TCP Speed	/	4 m/s	/	5 m/s	
Physical Performance	Typical Power	500W		1500W	
	IP Degree	IP65		IP65	
	Tool I/O	Digital I/O ×2, Analog Input ×2, End IO Module ×2, (24/12/48V), EtherCAT		Digital I/O ×2, Analog Input ×2, End IO Module ×2, (24/12/48V), EtherCAT	
	Base Footprint	Ø188mm, M8*4		□260mm, M16*4	
	Robot Mounting	Floor, Wall, Ceiling		Floor, Wall, Ceiling	
Cobot Controller	IP Degree	IP54		IP54	
	Communication	16 Digital Inputs, 16 Digital Outputs 16 Safety Digital Inputs, 16 Safety Digital Outputs HSI High-Speed Input Interface 2 Emergency Stop Inputs, 2 Protective Stop Inputs		16 Digital Inputs, 16 Digital Outputs 16 Safety Digital Inputs, 16 Safety Digital Outputs HSI High-Speed Input Interface 2 Emergency Stop Inputs, 2 Protective Stop Inputs	
	Industrial Protocols	Ethernet*2 (1000Mb)		Ethernet*2 (1000Mb)	
	Extension Protocols	PROFINET I/O Device, EtherCAT, EtherNet/IP Modbus RTU Master/Slave, Modbus TCP Server		PROFINET I/O Device, EtherCAT, EtherNet/IP Modbus RTU Master/Slave, Modbus TCP Server	
	Power supply	100-240VAC, 50-60Hz		100-240VAC, 50-60Hz	
	Dimensions	421*379*255 mm (W×H×D)		421*379*255 mm (W×H×D)	
	Weight	14.3 kg		14.3 kg	

*Option: wired teach pendant Touch II

JAKA Pro Series

Resistant

IP68 degree of protection against dust, and water. The highest in the market

Reliable

Repeatability of ±0.02 mm
Work without supervision 24/7


Versatile


Is able to perform in the most challenging environments





Parameters	JAKA Pro5		JAKA Pro12		JAKA Pro16		
	Basic Parameter	JAKA Pro5		JAKA Pro12		JAKA Pro16	
Payload	5 kg (11 lb)		12 kg (26.4 lb)		16 kg (35.27 lb)		
Weight (including cables)	23 kg (50.71 lb)		41 kg (90.39 lb)		79.7 kg (175.71lb)		
Reach	954 mm (37.5 in)		1327 mm (52.2 in)		1713 mm (67.44 lb)		
Repeatability	±0.02 mm (±0.00079 in)		±0.03 mm (±0.00118 in)		±0.03 mm (±0.00118 in)		
Degree of freedom	6		6		6		
Programming	Graphical programming, and freedrive programming		Graphical programming, and freedrive programming		Graphical programming, and freedrive programming		
Demonstrator type	Mobile terminal (computer/pad/mobile phone)		Mobile terminal (computer/pad/mobile phone)		Mobile terminal (computer/pad/mobile phone)		
Movement	Joint	Range of action	Joint speed	Range of action	Joint speed	Range of action	Joint 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
	Joint 3	±175°	180°/s	±175°	120°/s	±175°	120°/s
	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
Tool typical speed	/	1 m/s (3.281ft/s)	/	1 m/s (3.281ft/s)	/	1.5 m/s (4.921ft/s)	
Specifications	Typical consumption	350W		500W		750W	
	IP classification	IP68		IP68		IP68	
	Tool I/O ports	2 Digital inputs		2 Digital inputs		2 Digital inputs	
		2 Digital outputs		2 Digital outputs		2 Digital outputs	
		2 Analog input		2 Analog input		2 Analog input	
Footprint	158 mm (6.220 in)		188 mm (7.402 in)		246 mm (9.685 in)		
Control cabinet JAKA CAB V2.1 <small>(Optional: JAKA CAB V3)</small>	IP classification	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	
	Communication mode	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 supply	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	15.4 kg (33.95 lb)		18 kg (39.68 lb)		18 kg (39.68 lb)	

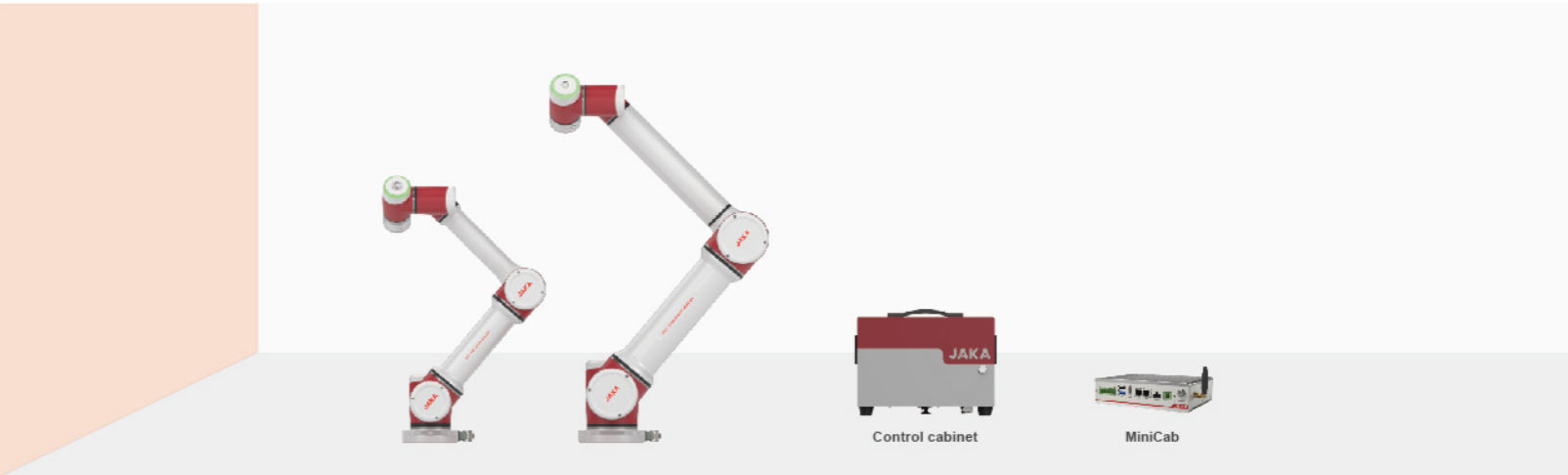
JAKA S Series


Safety Protection
 IP65 rating


Highly Sensitive
 Integrated force control


Quick Application
 JKS Hub quick app platform


Safety Compliance
 Certified to Medical Safety Standards



	Parameter	JAKA S5		JAKA S7		JAKA S12	
Basic Parameter	Payload	5 kg (11 lb)		7 kg (15.4 lb)		12 kg (26.5 lb)	
	Reach	954 mm (37.5 in)		819 mm (32.2 in)		1327 mm (52.2 in)	
	Degrees of freedom	6		6		6	
	Average power consumption	350w		350 W (0.47 hp)		500w	
	Peak power	2000W		2000W		3000W	
Performance	Force/torque sensor	Force, x-y-z		Force, x-y-z		Force, x-y-z	
	Range	200N		24Nm		Torque, x-y-z	
	Max affordable force	3000N		200 N (45 lbf)		24 Nm (212.4 lbf-in)	
	Overall accuracy ⁱ	1% F.S. ⁱⁱ		300Nm		300 Nm (2655.3 lbf-in)	
	Distinguishability	0.1N		3000 N (674.4 lbf)		3000N	
Movement	Tool typical speed	1 m/s (3.281ft/s)		1 m/s (3.281ft/s)		1 m/s (3.281ft/s)	
	Repeatability	±0.02 mm (±0.00079 in)		±0.02 mm (±0.00079 in)		±0.03 mm (±0.00118 in)	
	Joint	Range of action		Joint speed		Working range	
	Joint 1	±360°		180°/s		Maximum speed	
	Joint 2	-85°~+265°		180°/s		Range of action	
	Joint 3	±175°		180°/s		Joint speed	
	Joint 4	-85°~+265°		180°/s		±360°	
	Joint 5	±360°		180°/s		120°/s	
Joint 6	±360°		180°/s		180°/s		
Physical	IP classification	IP 65		IP 65		IP 65	
	Robot mounting	Any orientation		Any orientation		Any orientation	
	Base diameter	158 mm (6.220 in)		158 mm (6.220 in)		188 mm (7.402 in)	
	Materials	Aluminium, PC		Aluminium, PC		Aluminium, PC	
	Robot connection cable length	6 m (236 in)		6 m (236 in)		6 m (236 in)	
	Weight	23 kg (50.71lb)		22 kg (48.50 lb)		41 kg (90.39lb)	
	Temperature	0~50°C (32~122°F) ⁱⁱⁱ		0~50°C (32~122°F) ⁱⁱⁱ		0~50°C (32~122°F) ⁱⁱⁱ	

ⁱ: Overall accuracy: It represents the median typical value of the system error, including the measurement error of the sensor and the absolute positioning error of the robot, reflecting the overall accuracy of the robot system in measuring external forces applied to the robot's end under real operating conditions.

ⁱⁱ: 1% F.S.: 1% of the full scale.

ⁱⁱⁱ: At low environmental temperature <10°C, a warm-up phase recommended to be run with the robot. Otherwise, there is a risk that the robot stops or run with lower performance.

JAKA A12L Intelligent Visual Perception Robot

「Available in select markets」

JAKA Cobo II

Integrated Design

High positioning accuracy
Fast response

Auto-Focus Capability

Advanced auto-focus
& intelligent lighting

Multiple Vision Functions

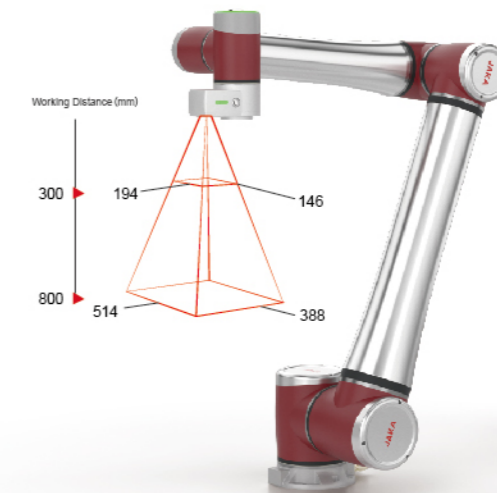
Covering 90% of robotic
vision applications



JAKA CAB V3

JAKA A12L Camera Field of View Diagram

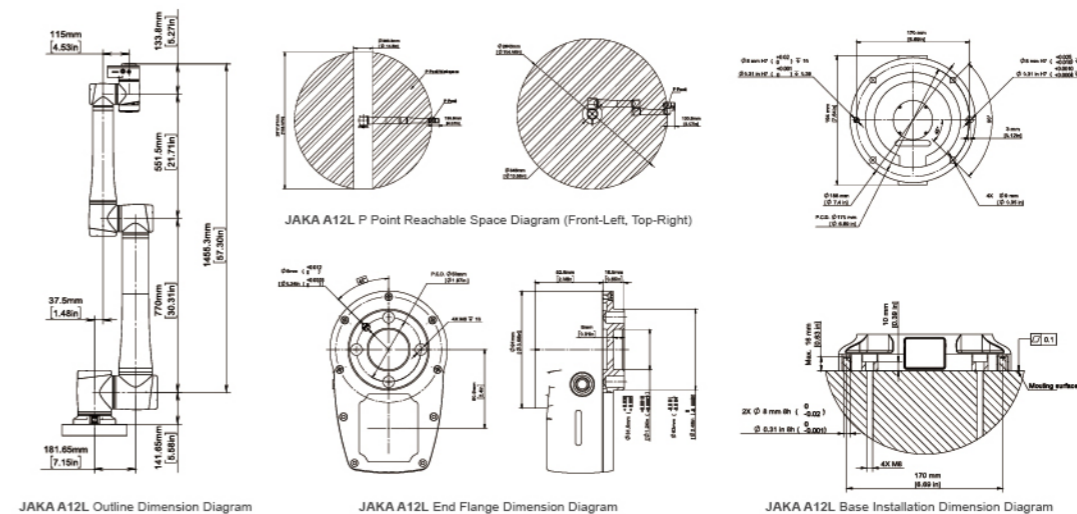
Field of View (Typical)	Working Distance (mm)	Horizontal Field of View (mm)	Vertical Field of View (mm)	Pixel Accuracy (mm/pixel)
Reading Range Characteristic Diagram	80	55	41	0.016
	150	99	75	0.029
	230	149	113	0.043
	300	194	146	0.056
	400	257	194	0.074
	600	383	290	0.111
	1000	635	481	0.184
1500	951	720	0.275	



Product Features	Robot Model	JAKA A12L			
		Payload	12 kg		
	Weight	41 kg			
	Working Radius	1425 mm			
	Repeat Positioning Accuracy	±0.03 mm			
	Degrees of Freedom (DoF)	6			
	Programming	Graphical Programming, Drag-and-Drop Programming			
	Teach Pendant Type	Mobile Terminals (Computer, Tablet, Mobile Phone)			
Motion Range and Speed	Robot Arm	Motion Range	Maximum Speed		
	Joint 1	±360°	150°/s		
	Joint 2	±360°	150°/s		
	Joint 3	±360°	210°/s		
	Joint 4	±360°	210°/s		
	Joint 5	±360°	210°/s		
	Joint 6	±360°	210°/s		
	Maximum Tool Center Point Speed	/	4 m/s		
Physical Performance and Others	Typical Consumption	500W			
	IP Rating	IP54 (Joint 5/6:IP67)			
	Tool I/O Ports	2 Digital Inputs, 2 Digital Outputs, 2 Analog Inputs			
	Base Diameter	Ø188mm, M8x4			
Basic Parameters	Resolution	3456*2880(switchable to 2400*2000)			
	Maximum Frame Rate	45fps			
	Shutter Mode	Global			
	Image Mode	Color, Monochrome			
	Lens Interface	M12, Auto Focus			
	Lens Focal Length	Standard 12mm, Optional 8mm/16mm			
Light Source Type	Standard White Light, Optional Red/Blue/Polarized/Non-polarized				
Control cabinet JAKA CAB V3	Name	CAB L	CAB H	OEM-DC	OEM-AC
	Dimensions	422*350*236 (W*H*D)	422*350*236 (W*H*D)	422*197*136 (W*H*D)	422*197*136 (W*H*D)
	Weight	11.5 kg	13 kg	3.4 kg	4.8 kg
	IP Rating	IP54	IP54	IP20	IP20
	Power Supply	100-240VAC 50-60HZ	100-240VAC 50-60HZ	32-58V	100-240VAC 50-60HZ
	Operating Temperature	0-50°C	0-50°C	0-50°C	0-50°C
Installation Method	Floor-standing, Wall-mounted		Rail-mounted, Floor-standing, Ear-mounted		

Kind Reminder: This product has not yet obtained CE, Rohs, or other certifications, but its performance complies with our corporate internal quality standards.

JAKA A12L Dimension Diagram



JAKA A12L Outline Dimension Diagram

JAKA A12L End Flange Dimension Diagram

JAKA A12L Base Installation Dimension Diagram

JAKA A Series

「Available in select markets」

IP67-Rated Wrist

Sealed against cutting fluids and contaminants for worry-free operation.

20% Faster Cycle Times

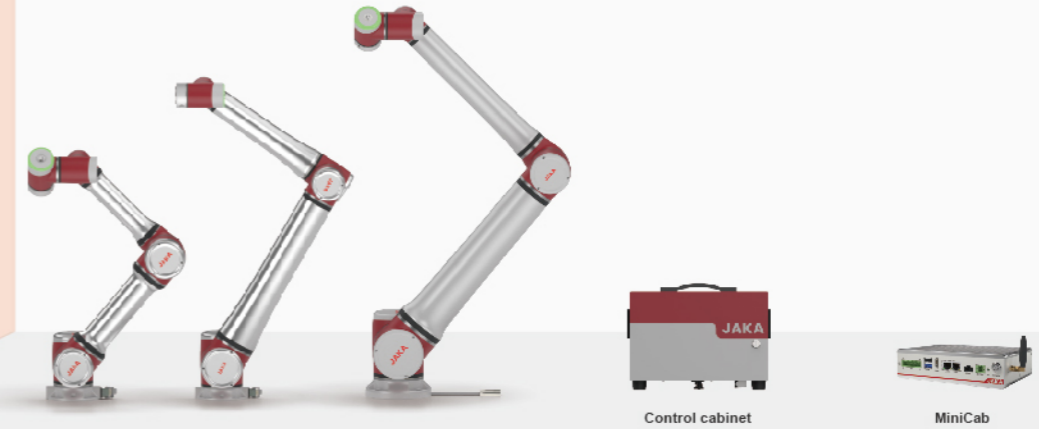
Boosts throughput and accelerates ROI

Axis 3 Pendulum Motion

Maximizes reach and flexibility with a minimal footprint (A12 only)

±0.02mm Repeatability

Industry-leading precision for consistent product quality




	Parameter	JAKA A5		JAKA A12		JAKA A20	
		Range of action	Joint speed	Range of action	Joint speed	Range of action	Joint speed
Basic Parameters	Payload	5 kg/ 7kg*		12 kg		20 kg	
	Weight	23 kg		41 kg		68 kg	
	Reach	954 mm		1425 mm		1780 mm	
	Repeatability	±0.02 mm		±0.03 mm		±0.05 mm	
	Degree of freedom	6		6		6	
	Programming	Graphical programming, and freedrive programming		Graphical programming, and freedrive programming		Graphical programming, and freedrive programming	
	Teach pendant type	Mobile terminal (computer/pad/mobile phone)		Mobile terminal (computer/pad/mobile phone)		Mobile terminal (computer/pad/mobile phone)	
Movement	Joint	Range of action	Joint speed	Range of action	Joint speed	Range of action	Joint speed
	Joint 1	±360°	210°/s	±360°	150°/s	±360°	120°/s
	Joint 2	±360°	210°/s	±360°	150°/s	-85°-+265°	120°/s
	Joint 3	±360°	210°/s	±360°	210°/s	±175°	120°/s
	Joint 4	±360°	265°/s*	±360°	210°/s	-85°-+265°	265°/s*
	Joint 5	±360°	265°/s*	±360°	265°/s*	±360°	265°/s*
	Joint 6	±360°	265°/s*	±360°	265°/s*	±360°	265°/s*
Tool max speed	/	3.5 m/s	/	4 m/s	/	5 m/s	
Physical	Average power consumption	350W		500W		750W	
	IP	IP54(Joint 4/5/6:IP67)		IP54(Joint 5/6:IP67)		IP54(Joint 4/5/6:IP67)	
	Tool I/O port	2 digital inputs, 2 digital outputs, 2 analog inputs		2 digital inputs, 2 digital outputs, 2 analog inputs		2 digital inputs, 2 digital outputs, 2 analog inputs	
	Base diameter	Ø158mm, M8x4		Ø188mm, M8x4		Ø246mm, M12x4	
Control Cabinet	IP	IP44		IP44		IP44	
	Control cabinet I/O port	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(Slave), Ethernet/IP		TCP/IP, Modbus TCP, Modbus RTU, Profinet(Slave), Ethernet/IP		TCP/IP, Modbus TCP, Modbus RTU, Profinet(Slave), Ethernet/IP	
	Power supply	100-240VAC, 50-60Hz		100-240VAC, 50-60Hz		100-240VAC, 50-60Hz	
	Outline dimension	410×307×235 (mm) (W×H×D)		410×307×235 (mm) (W×H×D)		410×307×235 (mm) (W×H×D)	
	Weight	15.4 kg		15.4 kg		18 kg	

*This performance can be achieved through a software upgrade.


JAKA Mini Series

Product introduction ▾


Lightweight and easy to set up, the JAKA Mini Series supports payloads of 1-2 kg. It features a built-in communication port, requiring no external cables and making it easy to connect with compatible tools. With intelligent control algorithms, it delivers superior performance and operates quietly. Both models seamlessly fit into a wide range of work environments, offering an excellent price-performance ratio and cost-efficient installation. They are widely used in hospitality, education, life sciences, retail, and services.



Cost-effective



Lightweight



Intelligent interconnection

				
	Weight	Payload	Reach	Repeatability
	9.4 kg	1 kg	580 mm	±0.1 mm
	9.9 kg	2 kg	580 mm	±0.1 mm



Application cases ▾



Product features	Parameter	JAKA MiniCobo	JAKA Mini2	
	Payload	1 kg (2.21 lb)	2 kg (4.41 lb)	
	Weight (including cables)	9.4 kg (20.73 lb)	9.9 kg (21.83 lb)	
	Reach	580 mm (22.83 in)	580 mm (22.83 in)	
	Repeatability	±0.1 mm (±0.003937 in)	±0.1 mm (±0.003937 in)	
	Degree of freedom	6		
	Programming	Graphical programming, free-drive		
	Demonstrator type	Mobile terminal (computer/pad/mobile phone)		
	Collaborative operation	Collaborative operation as ISO 10218-1: 2011		
	Working range and speed	Joint	Range of action	
Joint 1		±360°		
Joint 2		±125°		
Joint 3		±130°		
Joint 4		±360°		
Joint 5		±120°		
Joint 6		±360°		
Tool typical speed		1 m/s (3.28 ft/s)		
Specifications	Typical consumption	150W	180W	
	Rated voltage	24VDC	48VDC	
	Temperature range	0-50°C	0-50°C	
	IP classification	IP40	IP40	
	Installation	At any angle		
	Tool I/O	2 Digital inputs		
		2 Digital outputs		
		2 Analog input		
	Tool I/O power	24VDC		
	Tool I/O size	M8		
	Materials	Aluminum, PC		
	Footprint	124 mm (4.88 in)		
	Robot connection cable length	6 m (236 in)		
	MiniCab cabinet	Power input	20-60VDC	
		Current	≤40A	
		Size	180×128×47 mm (L×W×H)	
IP classification		IP20		
I/O		7 Digital input: I/O configurable		
I/O Power		24VDC		
Installation		Panel/Guide Rail		
Communication mode		TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP		
Weight		1.1 kg (2.43 lb)		
Material		Aluminum, Steel		

JAKA Lens 2D

JAKA Lens 2D

Product description

The JAKA Lens 2D camera is equipped with a high-resolution industrial camera, a light source module, and an optional camera lens to provide our collaborative robots with machine vision capabilities. Despite its small and delicate appearance, this camera is highly effective. It can be installed either in a fixed position or at the end of the cobot.

<p>Convenient</p> <p>Compatible with any JAKA cobot</p>	<p>Customizable</p> <p>Optional camera lens Various functions are available</p>	<p>Practical</p> <p>The camera uses JAKA software, no need for additional licenses</p>
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Product Features

<p>Integrated design</p> <p>The 2D camera consists of three key components: a camera, a lens, and a light source. It is able to communicate with a JAKA robot control cabinet through the web, making it an easy-to-use and highly effective addition to our cobots.</p>	<p>Easy operation</p> <p>Our control cabinet is embedded with intelligent vision algorithms. Additionally, it features flexible communication interfaces that are able to adapt to the robot body, ensuring that it is a highly versatile and adaptable tool.</p>	<p>Scenario-adaptable</p> <p>Our 2D camera also supports third-party camera extensions and custom external light sources, making it highly versatile and adaptable to a wide range of application scenarios.</p>
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Technical aspects

Parameters	Lens 2D HR-CGC500-F08	Lens 2D HR-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
Object distance	100 mm-1000 mm	100 mm-1000 mm
Vision	>70×50 mm	>35×25 mm
Pixel accuracy	>0.08mm	>0.04 mm
System accuracy	≥ ±0.2 mm	≥ ±0.2 mm
Image processing	Soft-trigger image acquisition, single frame processing time within 1s	

JAKA Lens VPS

Product description

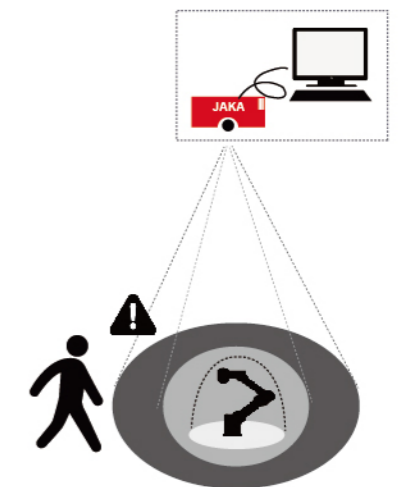
JAKA Lens VPS 2.0 is a cutting-edge technology that utilizes a high-performance AI-SoC chip, along with high-speed and large-capacity memory and storage. It is equipped with a high-performance acceleration engine, which can perform target detection, object recognition, human pose point extraction, and behavior understanding. The VPS is designed to be installed at the top of the cobot's working area, allowing the camera to monitor the behavior of inspected objects (both people and objects) in real time, ensuring the safety of both people and equipment. The camera also features a Gigabit Ethernet port, which supports data extraction and video visualization.

<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>Convenient</p> <p>No complicated software installation required Simple to install</p>
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Product Features

- Built-in neural network accelerator for AI recognition and analysis of video
- 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, access settings via browser
- It can perform AI detection 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	81×50×64mm
Installation method	Directly above, sideways (suggested install at 45°)
Communication interface	Ethernet interface, RS485, PNP optocoupler isolation DI and DO

Visual parameters

Resolution	8.3 MP
Response time	≤100 ms
Installation height	≥3m (suggested)
Coverage surface	4 m x 2.1 m (adjustable)

JAKA Robot Control Cabinet

JAKA CAB V3



Product Features

- Flexible Deployment
- High Performance
- Seamless Connectivity & Scalability
- Efficient Maintenance

Technical Specification

Applicable Models	CAB L		CAB H		CAB LiteAC		CAB LiteDC		
	JAKA Zu3/5/7/12/18 JAKA S5/7/12 JAKA Pro5/12 JAKA A12L		JAKA Zu20/30 JAKA Pro16		All JAKA cobots (excluding JAKA Mini Series and JAKA MAX Series)				
Physical Specifications	Dimensions (W×H×D)	421 × 379 × 255 mm (16.6 × 14.9 × 10.0 in)		425 × 196 × 136 mm (16.7 × 7.7 × 5.4 in)		425 × 208 × 136 mm (16.7 × 8.2 × 5.4 in)			
	Weight	12.8 kg (28.2 lb)	14.3 kg (31.5 lb)	4.8 kg (10.6 lb)	3.5 kg (7.7 lb)				
	IP Rating	IP54	IP54	IP20	IP20				
	Operating Temperature	0–50°C (32–122°F)							
	Humidity	10–90% RH (non-condensing)							
	Materials	Aluminum alloy, Steel							
	Altitude	≤ 2000 m (78740 in)							
	Noise Level	45 dB (typical)							
	Mounting Options	Floor, Suspended, Rear			Rail, Bracket				
Electrical	Power Type	AC	AC	AC	DC				
	Power Input	100–240 VAC, 50/60 Hz	100–240 VAC, 50/60 Hz	100–240 VAC, 50/60 Hz	48 VDC				
	Typical Power Consumption (w/robot)	500 W	750 W	500 W	500 W				
I/O & Interfaces	Digital I/O	16× DI (NPN/PNP configurable), 16× DO (NPN/PNP configurable)							
	Safety I/O	16× Safety DI (PNP), 16× Safety DO (PNP), 2× Emergency Stop Input, 2× Protective Stop Input							
	High-Speed Input	HSI (supports 5V/24V encoders, differential)							
	I/O Power Supply	24V–3A (Internal), 24V–5A (External)							
Communication	Ethernet	2× Gigabit Ethernet							
	Industrial Protocols	PROFINET IO Device							
		EtherCAT Master							
		EtherNet/IP Adapter							
Modbus RTU Master/Slave									
Modbus TCP Client/Server									
Expansion	Supports PROFINET Controller, CC-Link Slave, etc.								
Teach Pendant	Teach Pendant	JAKA Touch I (standard), JAKA Touch II (optional)							
Power Cable Length	Power Cable Length	3 m (118 in)		3 m (118 in)		-			

JAKA Touch Series Pendant

JAKA Touch I



Product Features

- Safety Function**
Equipped with a three-stage enable switch, comprehensive safety upgrade.
- Network Connections**
100Mbps wired network connection to cope with complex on-site conditions.
- Range Charging**
10W fast charging, no burden for long-term teaching.

Technical Specification

Charging Power	10W	Enclosure Type	IP44
Network Rate	100 Mbps	Humidity	10–90%RH
External Interface	USB 3.0	Compatible Tablet	Redmi Pad Pro
Ambient Temperature	0–50°C(32–122°F)		
Material	ABS+PC, rubber, aluminium		
Weight	1.21 kg / 2.67 lbs		
Cable Length	6 m / 236 inches		
Size	280 mm x 160 mm x 60 mm / 11 in x 6.3 in x 2.4in		
Harness Length	400 mm / 15.7 inches		

JAKA Touch II



Product Features

- Larger screen**
12.1-inch LCD screen.
- Reliable**
Three-Position Enabling Switch / IP65 / 1.2m Drop Resistance.
- Joystick teaching**
Simple to learn, quick to master.

Technical Specification

Screen	12.1 inches	Enclosure type	IP65
User Interface	USB	Environmental Humidity	10–90%RH
Touchscreen Type	Capacitive, multi-touch	Reliability	Drop protection ≤ 1.2m
Physical Buttons	Emergency Stop Button / Three Position Enable Button / Teach Pendant Switch		
Operating Temperature	-20–60°C (-4–140°F)		
Material	ABS+PC, Aluminum		
Net Weight	1.2kg/ 2.64 lbs		
Cable Length	6 m / 236 inches		
Dimensions	358 mm x 200 mm x 86.5 mm / 14.1 in x 7.9 in x 3.4 in		