

PRODUCT SELECTION GUIDE

Global Leader in General Intelligent Robots



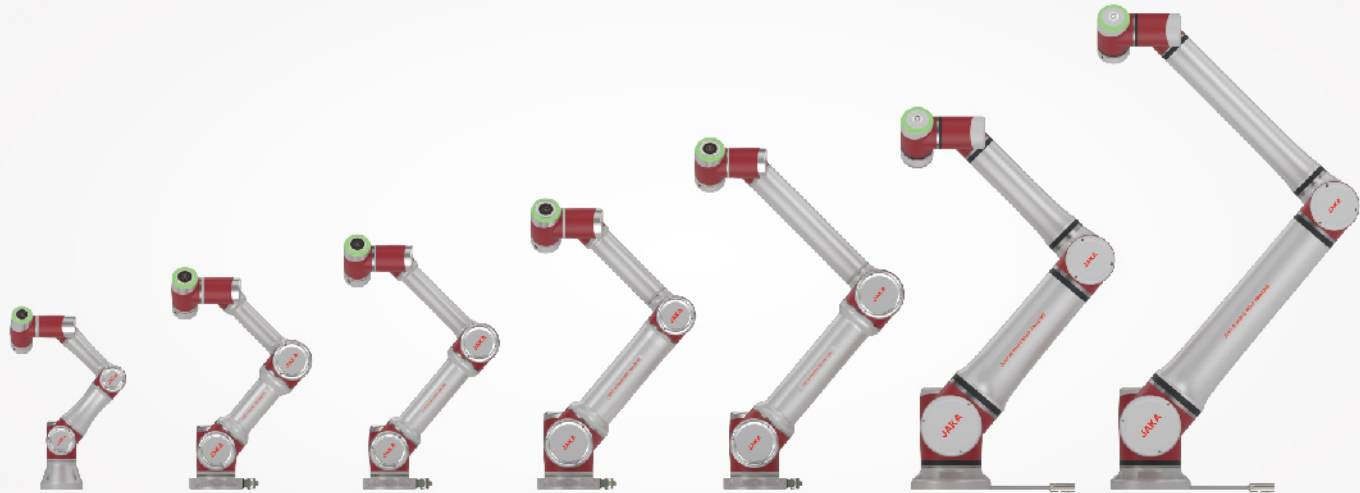
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Product Matrix



Ease of Use



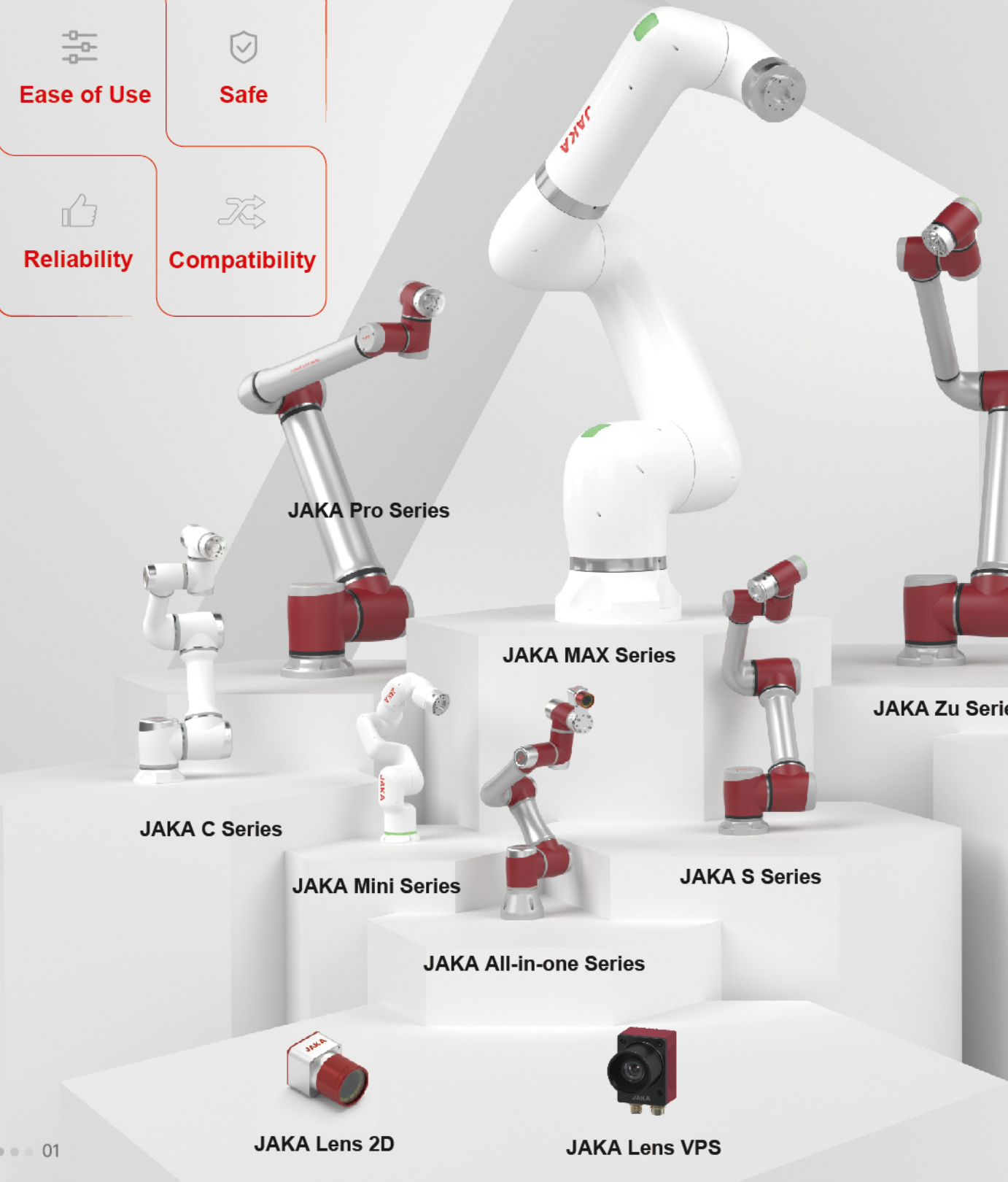
Safe



Reliability



Compatibility



Collaborative & General Intelligent Robots

Fulfills the requirements of all types of industrial solutions



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



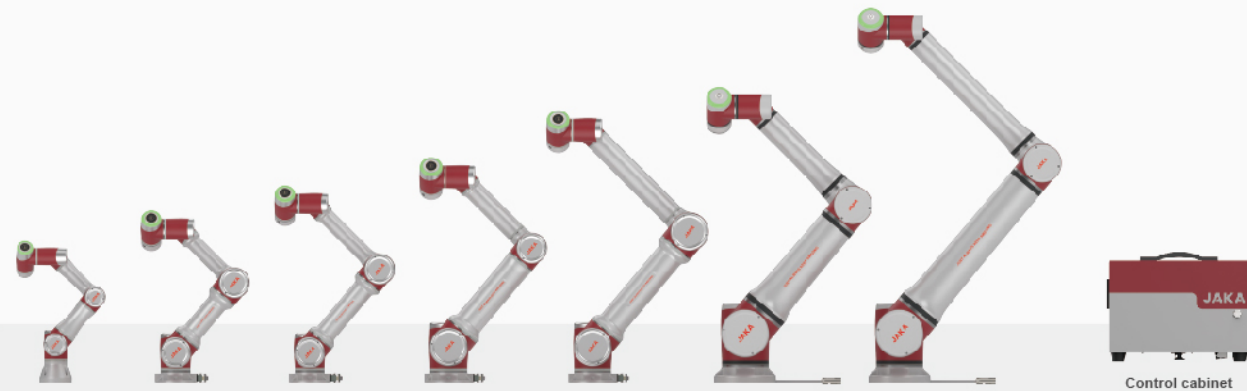
Easy to Use

In-built torque feedback module
Drag teaching
Graphic programming



Built for Every Task

Excellent repeatability
Great precision
MTBF 80,000 hours



Basic Parameter	Parameter	JAKA Zu3		JAKA Zu5		JAKA Zu7		JAKA Zu12		JAKA Zu18		JAKA Zu20		JAKA Zu30			
	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		Graphical programming, and freedrive programming		Graphical programming, and freedrive programming		Graphical programming, and freedrive 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)		Mobile terminal (computer/pad/mobile phone)		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		Range of action		Joint speed	
	Joint 1	±360°		180°/s		±360°		180°/s		±360°		120°/s		±360°		120°/s	
	Joint 2	-85°~+265°		180°/s		-85°~+265°		180°/s		-85°~+265°		120°/s		-85°~+265°		120°/s	
	Joint 3	±175°		180°/s		±175°		180°/s		±175°		180°/s		±175°		120°/s	
	Joint 4	-85°~+265°		220°/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°		220°/s	
	Joint 6	±360°		220°/s		±360°		180°/s		±360°		180°/s		±360°		220°/s	
	Typical TCP speed	/		1.5 m/s (4.922 ft/s)		/		3 m/s (9.843 ft/s)		/		3.5 m/s (11.484 ft/s)		/		5 m/s (16.404 ft/s)	
Specifications	Typical consumption	150W		350W		350W		500W		500W		750W		750W			
	IP classification	IP54		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 digital outputs			
		2 analog inputs		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 JAKA CAB V2.1 (Optional: JAKA CAB V3)	IP classification	IP44		IP44		IP44		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									
	Communication mode	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		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 S Series



Safety Protection

IP65 rating



Highly Sensitive

Integrated force control



Quick Application

JKS Hub quick app platform

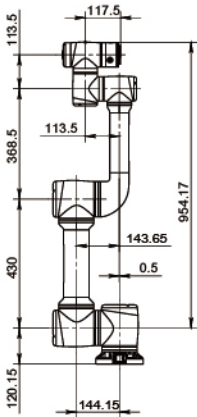


Basic Parameter	Parameter	JAKA S5		JAKA S12	
	Payload	5 kg (11 lb)		12 kg (26.5 lb)	
	Reach	954 mm (37.6 in)		1327 mm (52.4 in)	
	Degrees of freedom	6		6	
	Typical consumption	350w		500w	
	Temperature	-10~50°C(14~122°F)			
Performance	Force/torque sensor	Force, x-y-z	Torque, x-y-z	Force, x-y-z	Torque, x-y-z
	Range	200N	24Nm	400N	48Nm
	Max affordable force	3000N	300Nm	3000N	300Nm
	Overall accuracy	1% F.S.	1% F.S.	1% F.S.	1% F.S.
	Distinguishability	0.1N	0.1Nm	0.1N	0.1Nm
Movement	Typical TCP speed	1 m/s (3.281ft/s)	/	1 m/s (3.281ft/s)	/
	Repeatability	±0.02 mm (±0.00079 in)	/	±0.03 mm (±0.00118 in)	/
	Joint	Range of action	Joint speed	Range of action	Joint speed
	Joint 1	±360°	180°/s	±360°	120°/s
	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
Physical	IP classification	IP 65		IP 65	
	Robot mounting	Any orientation		Any orientation	
	Footprint	158 mm (6.220 in)		188 mm (7.402 in)	
	Materials	Aluminium, PC		Aluminium, PC	
	Robot connection cable length	6 m (236 in)		6 m (236 in)	
	Weight	23 kg (50.7lb)		41 kg (90.4lb)	
	Humidity	10~90% RH			

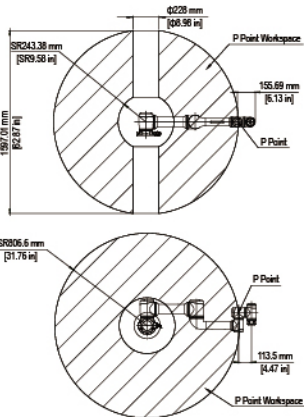
i: Overall accuracy: It represents the median typical value of the system error, including the measurement error of the sensor and the absolute positioning error of the robot, reflecting the overall accuracy of the robot system in measuring external forces applied to the robot's end under real operating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

ii:1% F.S.: 1% of the full scale.

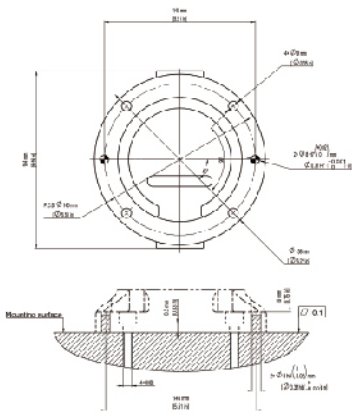
JAKA S5 Drawings



JAKA S5 Dimension

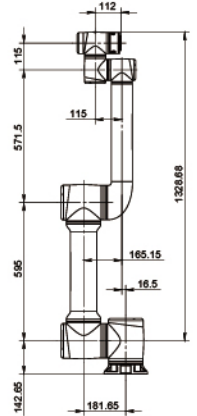


JAKA S5 Workspace: elevation view (top) and top view (bottom)

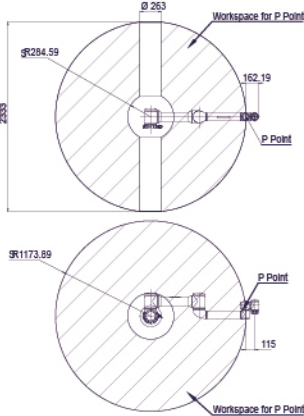


JAKA S5 Base

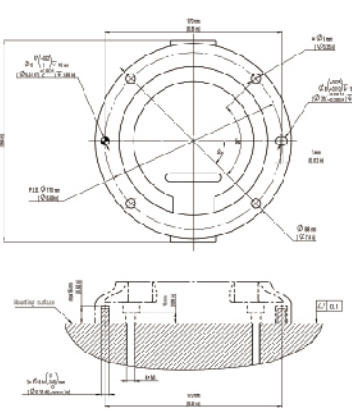
JAKA S12 Drawings



JAKA S12 Dimension



JAKA S12 Workspace: elevation view (top) and top view (bottom)



JAKA S12 Base

JAKA All-in-one Series

Attentive

Equipped with vision system for environment perception

Integrated

Vision control and configuration interface are integrated in JAKA's software

Compact

Includes the smallest control cabinet in the market



Basic Parameter	Parameters	JAKA Ai3		JAKA Ai5		JAKA Ai7		JAKA Ai12		JAKA Ai18	
	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)	
	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)	
	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)	
	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)	
	Degree of freedom	6		6		6		6		6	
	Programming	Graphical programming, and freedrive programming		Graphical programming, and freedrive 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)		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	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
	Joint 2	-85°, +265°	180°/s	-85°, +265°	180°/s	-85°, +265°	180°/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
	Joint 4	-85°, +265°	220°/s	-85°, +265°	180°/s	-85°, +265°	180°/s	-85°, +265°	180°/s	-85°, +265°	180°/s
	Joint 5	±360°	220°/s	±360°	180°/s	±360°	180°/s	±360°	180°/s	±360°	180°/s
	Joint 6	±360°	220°/s	±360°	180°/s	±360°	180°/s	±360°	180°/s	±360°	180°/s
	Typical TCP speed	/	1 m/s (3.281ft/s)	/	1 m/s (3.281ft/s)	/	1 m/s (3.281ft/s)	/	1 m/s (3.281ft/s)	/	1 m/s (3.281ft/s)
Specifications	Typical consumption	150W		350W		350W		500W		500W	
	IP classification	IP54		IP54		IP54		IP54		IP54	
	Tool I/O ports	2 digital input, 2 digital output, 2 analog output		2 digital input, 2 digital output, 2 analog output		2 digital input, 2 digital output, 2 analog output		2 digital input, 2 digital output, 2 analog output		2 digital input, 2 digital output, 2 analog output	
	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)	
JAKA Lens 2D parameters	Lens focal length	8 mm	16 mm	8 mm	16 mm	8 mm	16 mm	8 mm	16 mm	8 mm	16 mm
	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	>70mm*50mm	>35mm*25mm
	Precision	>0.08 mm	>0.04 mm	>0.08 mm	>0.04 mm	>0.08 mm	>0.04 mm	>0.08 mm	>0.04 mm	>0.08 mm	>0.04 mm
	Communications 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	2592×1944		2592×1944		2592×1944		2592×1944		2592×1944	
	Frame rate	24FPS		24FPS		24FPS		24FPS		24FPS	
MiniCab cabinet	Input power	DC30-60V				DC30-60V					
	Input current	≤40A				≤40A					
	Size	180×28×47 mm (L×W×H)				180×28×47 mm (L×W×H)					
	IP classification	IP20				IP20					
	I/O ports	7-way port; Input and output configurable				7-way port; Input and output configurable					
	Communication mode	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)					

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



Basic Parameter	Parameters	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		Range of action		Range of action	
	Joint 1	$\pm 360^{\circ}$		$\pm 360^{\circ}$		$\pm 360^{\circ}$	
	Joint 2	$-85^{\circ} \sim +265^{\circ}$		$-85^{\circ} \sim +265^{\circ}$		$-85^{\circ} \sim +265^{\circ}$	
	Joint 3	$\pm 175^{\circ}$		$\pm 175^{\circ}$		$\pm 175^{\circ}$	
	Joint 4	$-85^{\circ} \sim +265^{\circ}$		$-85^{\circ} \sim +265^{\circ}$		$-85^{\circ} \sim +265^{\circ}$	
	Joint 5	$\pm 360^{\circ}$		$\pm 360^{\circ}$		$\pm 360^{\circ}$	
	Joint 6	$\pm 360^{\circ}$		$\pm 360^{\circ}$		$\pm 360^{\circ}$	
	Typical TCP speed	/		/		/	
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 (Optional: JAKA CAB V3)	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 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





Weigh



Payload



Reach



Repeatability

JAKA MiniCobo	9.4 kg	1 kg	580 mm	±0.1 mm
JAKA Mini2	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°	
	Typical TCP 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	Alumminum, 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.

Convenient

Compatible with any JAKA cobot

Customizable

Optional camera lens
Various functions are available

Practical

The camera uses JAKA software,
no need for additional licenses



Product Features

Integrated design

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.

Easy operation

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.

Scenario-adaptable

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.

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.

High reliability

Isolate external factors
The protection effect is stable and reliable

High performance

High speed combined with
high storage capacity

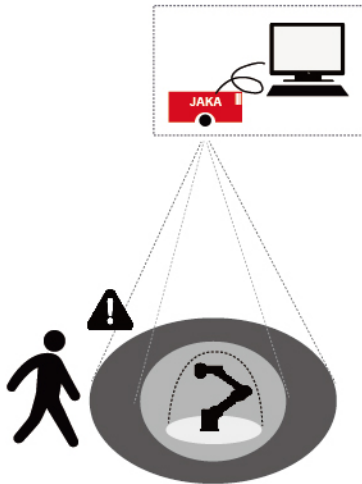
Convenient

No complicated software installation required
Simple to install



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 × 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		