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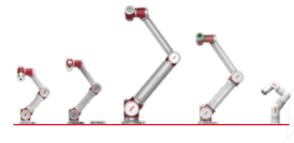
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JAKA Just Always Keep Amazing

Global Leader in Flexible Intelligent Robotics



PRODUCT SELECTION GUIDE





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.



Graphic 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.



Safe Human-robot Collaboration

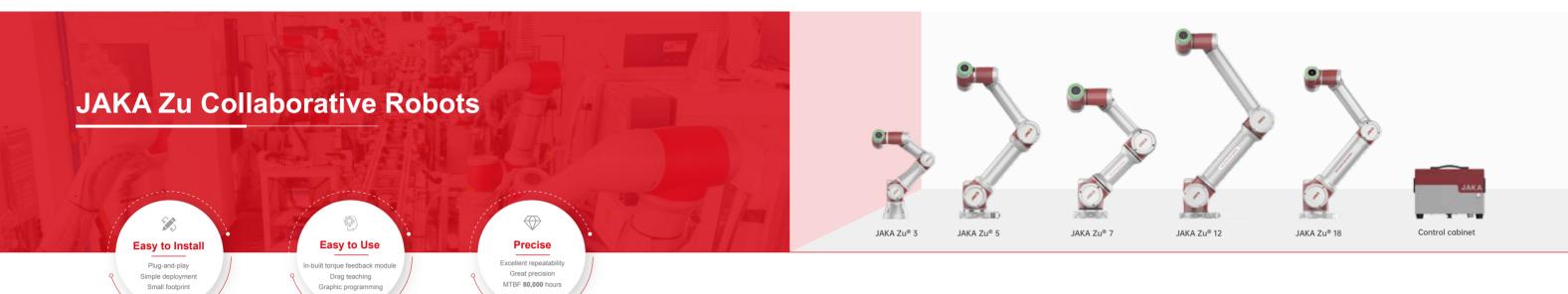
JAKA cobots are designed to work safely alongside humans, without the need for a safety fence, thanks to their collision detection module. Even the slightest bump can be detected, allowing the cobot to react and avoid causing harm.



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.

02 • •



	Parameter	JAKA Zu [®] 3		JAKA Zu [®] 5 JAKA Zu [®] 7		\Zu [®] 7	JAKA Zu [®] 12		JAKA Zu [®] 18			
	Maximum payload	3	kg	51	kg	•	7kg	12	kg	188	kg	
	Weight	12kg		23kg		22kg		41kg		35kg		
	Working radius	626mm		954mm		819mm		1327mm		1073mm		
Product features	Repeatability	±0.02mm		±0.02mm		±0.02mm		±0.03mm		±0.03mm		
	Number of axis	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		
	Teaching pendant	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	
	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	
Working range	Joint 3	±175°	180°/s	±175°	180°/s	±175°	180°/s	±175°	120°/s	±175°	180°/s	
and speed	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	
	Maximum speed of the tool end	1	1.5m/s	1	3m/s	1	2.5m/s	1	3m/s	1	3.5m/s	
	Power consumption	150W		35	0W	3	50W	50	0W	500	W	
	IP protection	IP54		IP54		I	P54	IP	54	IPS	54	
Specifications		2 Digital inputs		2 Digital inputs 2 Digital inputs		2 Digital inputs		2 Digital inputs				
opeomediens	Tool I/O ports	2 Digital outputs		2 Digital outputs		2 Digital outputs		2 Digital outputs		2 Digital outputs		
		2 Analog input		2 Analog input		2 Analog input		2 Analog input		2 Analog input		
	Base diameter	129mm		158mm		158mm		188mm		188mm		
	IP protection	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		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		
Control achinet	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		
Control cabinet	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)	410×307×23	5 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 15.4kg		18kg		181	18kg	

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JAKA Zu® 18s



	Parameters		JAKA	Zu [®] 3s	JAKA Zu [®] 5s		JAKA Zu® 7s		JAKA Zu [®] 12s		JAKA Zu® 18s		
	Max	imum payload	3kg		5	kg	71	kg	1:	2kg	18kg		
	Weight Working radius		12kg		23kg		22kg		41kg		35kg		
			626	Smm	954mm		819mm		1327mm		1073mm		
Product features	Repeatability		±0.02mm		±0.02mm		±0.02mm		±0.03mm		±0.03mm		
	Nι	ımber of axis		6		6		6		6		6	
	Р	rogramming	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		
	Teaching pendant		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	
		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	
Working range		Joint 3	±175°	180°/s	±175°	180°/s	±175°	180°/s	±175°	120°/s	±175°	180°/s	
and speed	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	
	Maximum speed of the tool end		1	1.5m/s	1	3m/s	1	2.5m/s	1	3m/s	1	3.5m/s	
	Power consumption		150W		35	50W	350W		500W		500W		
Specifications	IP protection		IP54		IF	P54	IP	54	IF	P54	IP	54	
Opecinications	To	ool 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	l output, 2 analog output	2 digital input, 2 digital	output, 2 analog output	
	Base diameter		129	9mm	158mm		158	mm	188mm		188	mm	
		Range (Fx/Fy)	100N/250N	200N/400N	100N/250N	200N/400N	100N/250N	200N/400N	250N	400N	250N	400N	
	End tool	Interface type	Ethernet interface	Serial port	Ethernet interface	Serial port	Ethernet interface	Serial port	Ethernet interface	Serial port	Ethernet interface	Serial port	
Force sensor		IP protection	IF	64	IP64		IP64		IP64		IP64		
		Range (Fx/Fy)	50	0N	16	00N	160	00N	4000N		4000N		
parameters	Base	Interface type	Ethernet	interface	Ethernet interface		Ethernet interface		Ethernet interface		Ethernet interface		
		Voltage	24	1V	2	4V	24	1V	24V		24V		
		IP protection	IP	64	IP64		IP64		IP64		IP64		
	IP protection		IP44		IP44		IP44		IP44		IP44		
	I/O ports		16 digital inputs, 16 digital outputs, 2 analog inputs or outputs		16 digital inputs, 16 digital out	puts, 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		
Control cabinet	Communication		TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP		TCP/IP, Modbus TCP, Mod	ous 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, Modbi	us RTU, Profinet, Ethernet/IP	
Control capillet		Power	100-240V	AC, 50-60Hz	100-240V	AC, 50-60Hz	100-240VA	100-240VAC, 50-60Hz		AC, 50-60Hz	100-240VA	C, 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	5 mm (W×H×D)	410×307×235	mm (W×H×D)	
		Weight	13	5kg	15	.4kg	15.4	4kg	18kg		18kg		

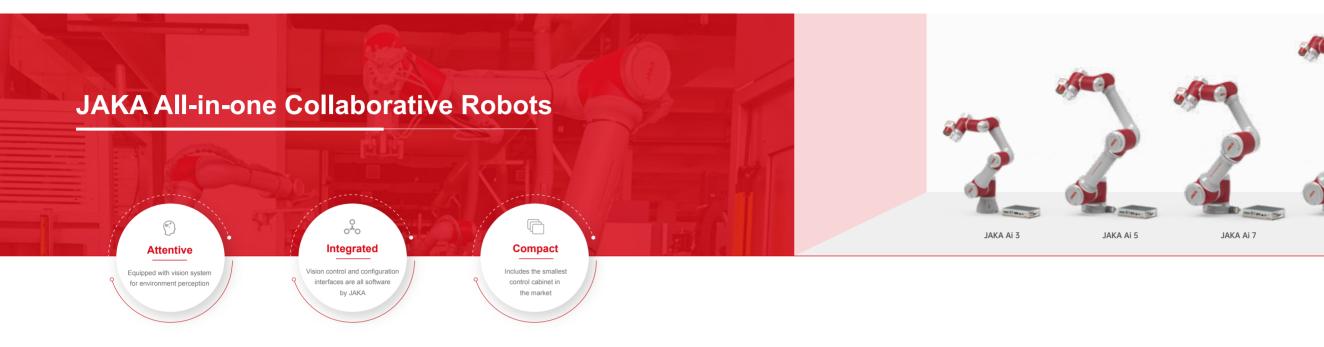
JAKA Zu® 5s

JAKA Zu® 7s

JAKA Zu® 12s

JAKA Ai 12

JAKA Ai 18



	Parameters	JAKA Ai 3		JAKA Ai 5 JAKA A		Ai 7 JAKA Ai 12		JAKA Ai 18			
	Maximum payload	3kg		51	kg	7kg		12	2kg	18kg	
	Weight	12	2kg	23	Bkg	22	2kg	4	1kg	35kg	
Burghast factors	Working radius	626mm		954mm		819mm		1327mm		1073mm	
Product features	Repeatability	±0.02mm		±0.02mm		±0.02mm		±0.03mm		±0.03mm	
	Number of axis	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	
	Teaching pendant	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
	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
Working range	Joint 3	±175°	180°/s	±175°	180°/s	±175°	180°/s	±175°	120°/s	±175°	180°/s
and speed	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
	Maximum speed of the tool end	1	1.5m/s	1	3m/s	1	2.5m/s	1	3m/s	1	3.5m/s
	Power consumption	150W		350W		350W		500W		500W	
Specifications	IP protection	IP54		IP54		IP54		IP54		IP54	
opcomoditions	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	2 digital input, 2 digital output, 2 analog output		output, 2 analog output	2 digital input, 2 digital	output, 2 analog output
	Base diameter	129mm		158mm		158mm		188mm		188mm	
	Lens focal length	8mm	16mm	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	
141/41 00	Vision	>70mm*50mm	>35mm*25mm	>70mm*50mm	>35mm*25mm	>70mm*50mm	>35mm*25mm	>70mm*50mm	>35mm*25mm	>70mm*50mm	>35mm*25mm
JAKA Lens 2D	Precision	>0.08mm	>0.04mm	>0.08mm	>0.04mm	>0.08mm	>0.04mm	>0.08mm	>0.04mm	>0.08mm	>0.04mm
parameters	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	24	FPS	24FPS		24FPS		24FPS		24FPS	
	Input power		DC3	80-60V			DC30-60V				
	Input current		≤4	10A				≤4	10A		
MiniCab cabinet	Size		180×28×47	mm (L×W×H)	m (L×W×H) 180×28×47 mm (L×W×H)						
minious cusinet	IP protection		IF	220				IF	220		
	I/O ports		7-way port; Input an	d output configurable				7-way port; Input an	d output configurable		
	Communication		TCP/IP, Modbus TCP, Modb	ous RTU, Profinet, Etherne	et/IP		-	TCP/IP, Modbus TCP, Modb	ous RTU, Profinet, Ethernet/IF		
	Weight		About 1.7 kg (incl			About 1.7 kg (including accessories)					

Product features

Working range

and speed

Specifications

Control cabinet

Control cabinet



Parameters

Maximum payload

Weight

Working radius

Repeatability

Number of axis

Programming

Teaching pendant

Robot joint

Joint 1

Joint 2

Joint 3

Joint 4

Joint 5

Joint 6

Maximum speed of the tool end

Power consumption

IP protection

Tool I/O ports

Base diameter

IP protection

I/O ports

Communication

Power

Size

Weight

JAKA Pro 5

5kg

23.5kg

954mm

±0.02mm

Drag teaching and graphic programming

PC, Mobile device (PAD/mobile)

350W

IP68

2 Digital inputs

2 Digital outputs

2 Analog input

158mm

IP44

16 digital inputs, 16 digital outputs, 2 analog inputs or outputs

TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP

100-240VAC, 50-60Hz

410×307×235 mm (W×H×D)

15.4kg

Maximum speed

180°/s

180°/s

180°/s

180°/s

180°/s

180°/s

3m/s

Working range

±360°

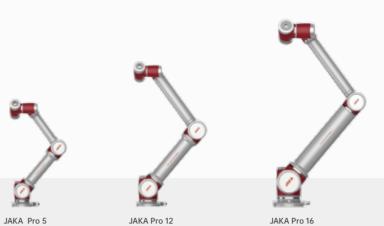
-85°,+265°

±175°

-85°,+265°

±360°

±360°



JAKA Pro 12

12kg

41kg

1327mm

±0.02mm

6

Drag teaching and graphic programming

PC, Mobile device (PAD/mobile)

500W

IP68

2 Digital inputs

2 Digital outputs

2 Analog input

188mm

IP44

16 digital inputs, 16 digital outputs, 2 analog inputs or outputs

TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP

100-240VAC, 50-60Hz

410×307×235 mm (W×H×D)

18kg

Maximum speed

120°/s

120°/s

120°/s

180°/s

180°/s

180°/s

3m/s

Working range

±360°

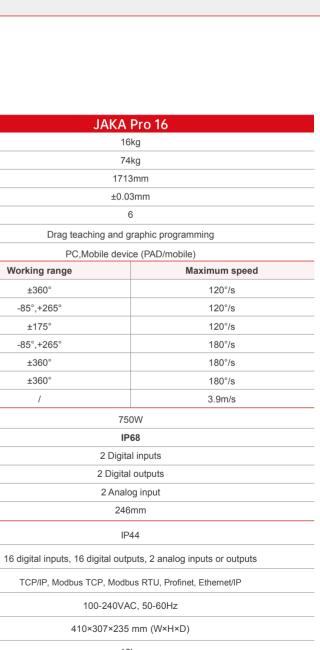
-85°,+265°

±175°

-85°,+265°

±360°

±360°



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.









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.

Parameters	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-1000mm	100mm-1000mm		
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 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.





Product Features ≥



Built-in neural network accelerator for AI recognition and analysis of video



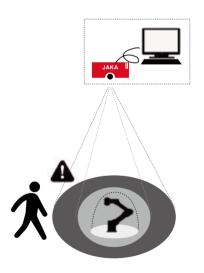
Event recording function, which can record key video segments, eliminate redundant information, trace back, and analyze more conveniently



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	101.7×72×51.1mm				
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	200 ms
Installation height	≥3m (suggested)
Coverage surface	4 m x 2.1 m (adjustable)

MiniCobo

JAKA MiniCobo

Product introduction

The JAKA MiniCobo is a small, rounded robot that is perfect for applications where appearance is important. Thanks to its built-in communication port, it doesn't require any external cables and can be easily connected to any tool that is compatible with JAKA. Additionally, JAKA's MiniCobo incorporates intelligent control algorithms, giving it a superior performance compared to its competitors. The MiniCobo operates quietly, making it an ideal solution for a range of industries including hospitality, education, retail, services, and entertainment, among others.





















Working radius Repeatability ±0.1mm

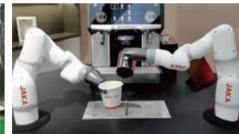




Application cases \supset











Product features		Payload	1kg				
Repeatability		Weight	9.4kg				
Axis 6 axes		Work radius	580mm				
Programming Graphical programming, free-drive	Product features	Repeatability	±0.1mm				
Teach pendant		Axis	6 axes				
Collaborative operation		Programming	Graphical program	mming, free-drive			
Robot joint Working range		Teach pendant	MT (Pad/Mobile) App				
Specifications Specifications		Collaborative operation	Accordance with GB 11291.1-2011				
Morking range and speed Joint3		Robot joint	Working range	Maximum speed			
Working range and speed Joint3		Joint1	±360°	180°/s			
Joint4		Joint2	±125°	180°/s			
Joint5	Working range	Joint3	±130°	180°/s			
Maximum speed of the tool end	and speed	Joint4	±360°	180°/s			
Maximum speed of the tool end		Joint5	±120°	180°/s			
Rated power 150W Temperature range		Joint6	±360°	180°/s			
Temperature range		Maximum speed of the tool end	1	1.5m/s			
IP Protection		Rated power	150W				
Installation		Temperature range	0-50°C				
Tool I/O 2 Digital outputs		IP Protection	IP	IP40			
Tool I/O 2 Digital outputs		Installation At any angle					
Tool I/O power			2 Digital inputs				
Tool I/O power 24VDC	Cussifications	Tool I/O	2 Digital outputs				
Tool I/O size	Specifications		2 Analog input				
Materials		Tool I/O power	24V	/DC			
Base diameter		Tool I/O size	M	8			
Cable length 6m		Materials	Aluminum, PC				
Power input 20-60VDC		Base diameter	124	mm			
Current 0-11.67A Size		Cable length	6m				
Size		Power input	20-60VDC				
MiniCab cabinet IP Protection IP20 I/O 7 Digital input: I/O configurable I/O Power 24VDC Installation Panel/Guide Rail Communication TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP Weight 1.1kg		Current	0-11.67A				
MiniCab cabinet I/O 7 Digital input: I/O configurable I/O Power 24VDC Installation Panel/Guide Rail Communication TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP Weight 1.1kg		Size	180×128×47 mm (L×W×H)				
MiniCab cabinet I/O Power Installation Panel/Guide Rail Communication TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP Weight 1.1kg		IP Protection	IP20				
Installation Panel/Guide Rail Communication TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP Weight 1.1kg	MiniCob askinst	I/O	7 Digital input: I/O configurable				
Communication TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP Weight 1.1kg	Minicab cabinet	I/O Power	24VDC				
Weight 1.1kg		Installation	Panel/Guide Rail				
		Communication	TCP/IP, Modbus TCP, Modbu	s RTU, Profinet, Ethernet/IP			
Material Alumminum, Steel		Weight	1.1	kg			
		Material	Alumminum, Steel				

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