PRODUCT SELECTION GUIDE

Global Leader in Flexible Intelligent Robotics



JAKA Robotics Co., Ltd.

- AKA China: Building 33-35, No. 610 Jianchuan Rd, Minhang District, Shanghai, China
- AKA Germany: Siemensstr. 31, 90766 Fürth, Germany
- 🙅 JAKA Japan: F Serebureito Aoi,1-6-14 Aoi, Higashi-ku,Nagoya-shi,Aichi-ken,Japan
- 🔔 JAKA Malaysia: 5-G, Jalan Borealis 3, Bandar Cassia, 14110 Simpang Ampat, Penang, Malaysia
- Marketing@jakarobotics.com

₩ 400-006-2665

Copyright © 2024 JAKA. All rights reserved. Disclaimers:

The copyright belongs to JAKA and cannot be copied or reproduced in any form without written permission. The company reserves the right to interpret and update the contents of the materials without notice.





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.

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.

memorize it.

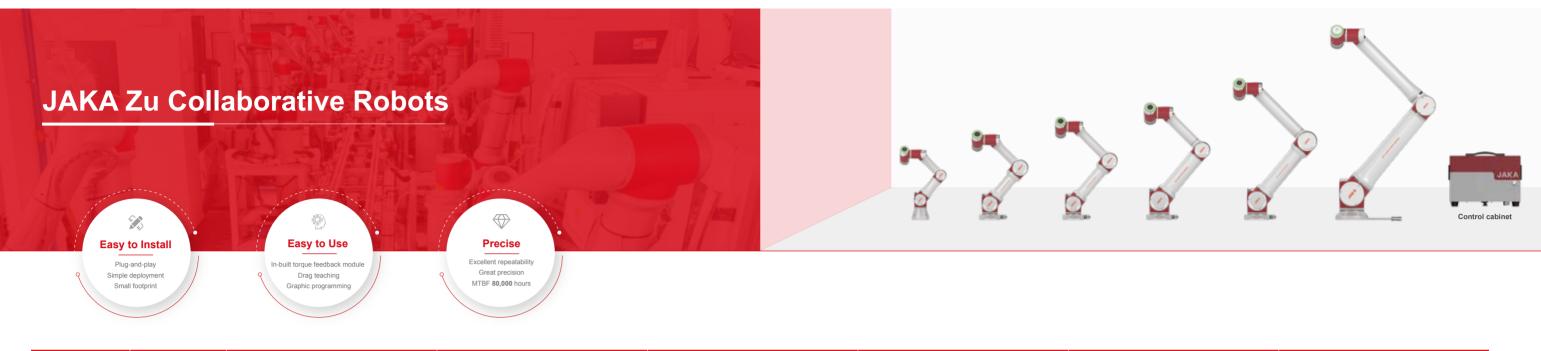
Install a JAKA cobot in just a few minutes, and mount it in any position or inclination. Our cobots are lightweight and are compatible with a wide range of grippers and end effectors. This makes them highly versatile and able to be deployed and re-deployed in any production environment.

Graphic Programming

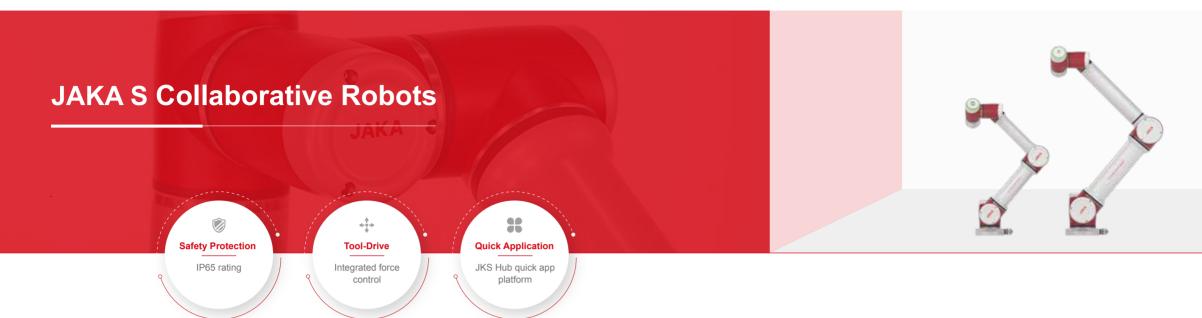
Drag Teaching

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

Plug-and-play

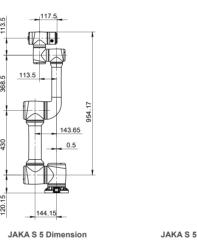


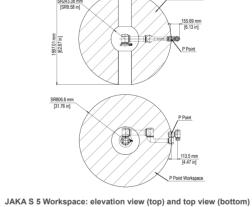
| | Parameter | JAKA | XZu 3 | JAKA | Zu 5 | JAKA | Zu 7 | JAKA | Zu 12 | JAKA | Zu 18 | JAKA | Zu 20 |
|--------------------|---------------------------|-----------------------------------|----------------------------------|------------------------------------|----------------------------------|-----------------------------------|----------------------------------|------------------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|----------------------------------|
| | Payload | 3 kg (| 6.6 lb) | 5 kg (| 11 lb) | 7 kg (1 | 5.4 lb) | 12 kg (| 26.4 lb) | 18 kg (| 39.6 lb) | 20 kg (| 44.1 lb) |
| | Weight (including cables) | 12 kg (2 | 26.46 lb) | 23 kg (5 | i0.71 lb) | 22 kg (4 | l8.50 lb) | 41 kg (9 | 90.39 lb) | 35 kg (7 | 77.16 lb) | 65 kg (1 | 43.3 lb) |
| Basic Parameter | 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) | |
| | Repeatability | ±0.02 mm (±0.00079 in) | | ±0.02 mm (±0.00079 in) | | ±0.02 mm (: | ±0.02 mm (±0.00079 in) | | ±0.00118 in) | ±0.03 mm (| ±0.00118 in) | ±0.05 mm (: | ±0.00120 in) |
| | Degree of freedom | 6 | | 6 | | 6 | | 6 | | 6 | | 6 | |
| | Programming | Graphical programming, a | and freedrive programming | Graphical programming, a | nd freedrive programming | Graphical programming, a | ind freedrive programming | Graphical programming, a | and freedrive programming | Graphical programming, a | and freedrive programming | Graphical programming, a | nd freedrive programming |
| | Demonstrator type | Mobile terminal (compo | uter/pad/mobile phone) | Mobile terminal (compu | ter/pad/mobile phone) | Mobile terminal (compl | iter/pad/mobile phone) | Mobile terminal (compu | uter/pad/mobile phone) | Mobile terminal (compl | uter/pad/mobile phone) | Mobile terminal (comp | iter/pad/mobile phone) |
| | 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 |
| | Joint 1 | ±360° | 180°/s | ±360° | 180°/s | ±360° | 180°/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 |
| Movement | Joint 3 | ±175° | 180°/s | ±175° | 180°/s | ±175° | 180°/s | ±175° | 120°/s | ±175° | 180°/s | ±175° | 120°/s |
| Wovement | 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 |
| | Joint 5 | ±360° | 220°/s | ±360° | 180°/s | ±360° | 180°/s | ±360° | 180°/s | ±360° | 180°/s | ±360° | 220°/s |
| | Joint 6 | ±360° | 220°/s | ±360° | 180°/s | ±360° | 180°/s | ±360° | 180°/s | ±360° | 180°/s | ±360° | 220°/s |
| | Typical TCP speed | / | 1 m/s (3.281ft/s) | / | 1 m/s (3.281ft/s) | 1 | 1 m/s (3.281ft/s) | 1 | 1 m/s (3.281ft/s) | / | 1 m/s (3.281ft/s) | 1 | 1.5 m/s (4.921ft/s) |
| | Typical consumption | 15 | W | 35 | W | 35 | W | 50 | W0 | 50 | W0 | 75 | W |
| | IP classification | IP | 54 | IP | 54 | IP | 54 | IP | 54 | IP | 54 | IP | 65 |
| Specifications | | 2 digital inputs | | 2 digital inputs | | 2 digital inputs | | 2 digita | al inputs | 2 digital inputs | | 2 digital inputs | |
| opeoindutiono | Tool I/O ports | 2 digital outputs | | 2 digital outputs | | 2 digital outputs | | 2 digital outputs | | 2 digital outputs | | 2 digital outputs | |
| | | 2 analo | g inputs | 2 analo | g inputs | 2 analo | g inputs | 2 analo | g inputs | 2 analo | g inputs | 2 analo | g 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) |
| | IP classification | IP | 44 | IP | 44 | IP | 44 | IP | 44 | IP | 44 | IP | 44 |
| | I/O ports | 16 digital inputs, 16 digital out | outs, 2 analog inputs or outputs | 16 digital inputs, 16 digital outp | outs, 2 analog inputs or outputs | 16 digital inputs, 16 digital out | outs, 2 analog inputs or outputs | 16 digital inputs, 16 digital outp | outs, 2 analog inputs or outputs | 16 digital inputs, 16 digital out | outs, 2 analog inputs or outputs | 16 digital inputs, 16 digital out | outs, 2 analog inputs or outputs |
| Control cabinet | Communication mode | TCP/IP, Modbus TCP, Modb | us RTU, Profinet, Ethernet/IP | TCP/IP, Modbus TCP, Modb | us RTU, Profinet, Ethernet/IP | TCP/IP, Modbus TCP, Modb | us RTU, Profinet, Ethernet/IP | TCP/IP, Modbus TCP, Modb | ous RTU, Profinet, Ethernet/IP | TCP/IP, Modbus TCP, Modb | ous RTU, Profinet, Ethernet/IP | TCP/IP, Modbus TCP, Modb | us RTU, Profinet, Ethernet/IP |
| Control cabinet | Power supply | 100-240VA | C, 50-60Hz | 100-240VAC, 50-60Hz | | 100-240VAC, 50-60Hz | | 100-240VAC, 50-60Hz | | 100-240VAC, 50-60Hz | | 100-240VAC, 50-60Hz | |
| | Size | 410×307×235 | (mm) (W×H×D) | 410×307×235 | (mm) (W×H×D) | 410×307×235 | (mm) (W×H×D) | 410×307×235 (mm) (W×H×D) | | 410×307×235 (mm) (W×H×D) | | 410×307×235 | (mm) (W×H×D) |
| | Weight | 13.5 kg (| 29.762 lb) | 15.4 kg (| 33.95 lb) | 15.4 kg | 33.95 lb) | 18 kg (3 | 39.68 lb) | 18 kg (| 39.68 lb) | 18 kg (| 39.68 lb) |



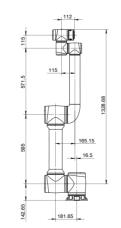
| | Parameter | JAK | A S 5 | JAKA | S 12 | |
|-------------|-------------------------------|------------------------|---------------|------------------------|---------------|--|
| | Payload | 5 kg (| (11 lb) | 12 kg (26.5 lb) | | |
| Basic | Reach | 954 mm | (37.6 in) | 1327 mm (52.4 in) | | |
| Parameter | Degrees of freedom | (| 6 | 6 | ; | |
| | Typical consumption | 35 | 0w | 500 | Jw | |
| | Temperature | | -10~50°C | (14~122°F) | | |
| | Force/torque sensor | Force, x-y-z | Torque, x-y-z | Force, x-y-z | Torque, x-y-z | |
| | Range | 200N | 24Nm | 400N | 48Nm | |
| Performance | 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 | |
| | Typical TCP speed | 1 m/s (3.281ft/s) | 1 | 1 m/s (3.281ft/s) | / | |
| | Repeatability | ±0.02 mm (±0.00079 in) | 1 | ±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 | |
| 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 | Any ori | entation | Any orientation | | |
| | Footprint | 158 mm (| 6.220 in) | 188 mm (7.402 in) | | |
| Physical | Materials | Alumini | um, PC | Aluminium, PC | | |
| | Robot connection cable length | 6 m (2 | 236 in) | 6 m (236 in) | | |
| | Weight | 23 kg (| 50.7lb) | 41 kg (| 90.4lb) | |
| | Humidity | | 10~9 | 0% RH | | |

JAKA S 5 Drawings





JAKA S 12 Drawings



JAKA S 12 Dimension

∎ľ⊿(

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.

Stay tuned for more new products





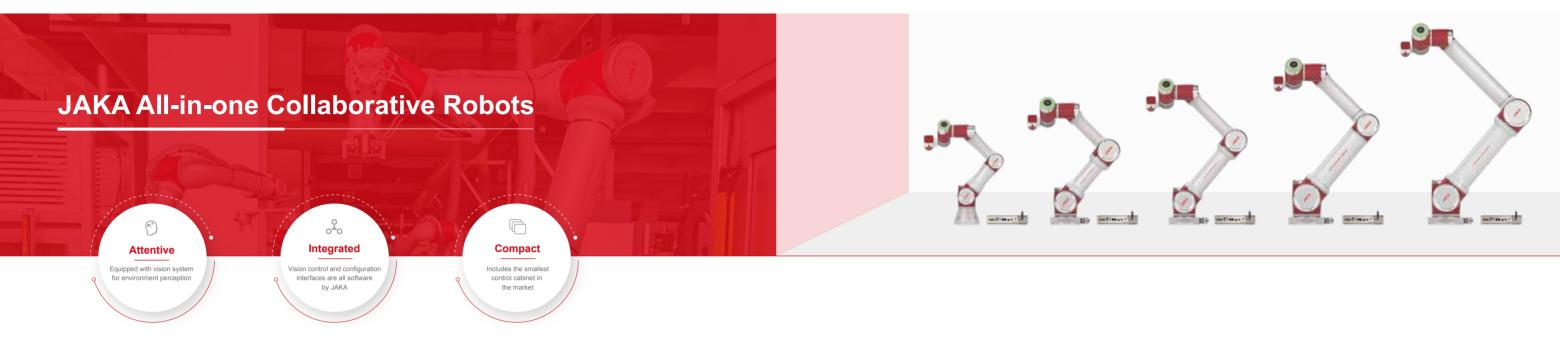
-2211/1 Jan JAKA S 5 Base

ace for P Poin

10.00 10 million

JAKA S 12 Workspace: elevation view (top) and top view (bottom)

JAKA S 12 Base



| | Parameters | JAK | A Ai 3 | JAKA | A Ai 5 | JAK/ | A Ai 7 | JAKA | Ai 12 | JAKA | Ai 18 |
|--------------------|---------------------------|--|---------------------------|--|--------------------------|--|---------------------------|--|------------------------------|--------------------------------------|---------------------------|
| | Payload | 3 kg (| 6.6 lb) | 5 kg (| 11 lb) | 7 kg (1 | 15.4 lb) | 12 kg (2 | 26.4 lb) | 18 kg (| 39.6 lb) |
| | Weight (including cables) | 12 kg (26.46 lb) | | 23 kg (5 | 60.71 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) |
| Basic Parameter | 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) |
| raiametei | Degree of freedom | | 6 | e | 3 | 6 | 6 | 6 | ; | (| ô |
| | Programming | Graphical programming, a | and freedrive programming | Graphical programming, a | nd freedrive programming | Graphical programming, a | and freedrive programming | Graphical programming, a | nd freedrive programming | Graphical programming, a | and freedrive programming |
| | Demonstrator type | Mobile terminal (comp | uter/pad/mobile phone) | Mobile terminal (compu | iter/pad/mobile phone) | Mobile terminal (compu | uter/pad/mobile phone) | Mobile terminal (compu | ter/pad/mobile phone) | Mobile terminal (compu | uter/pad/mobile phone) |
| | 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 |
| Movement | Joint 3 | ±175° | 180°/s | ±175° | 180°/s | ±175° | 180°/s | ±175° | 120°/s | ±175° | 180°/s |
| movement | 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 | 1 m/s (3.281ft/s) | 1 | 1 m/s (3.281ft/s) | 1 | 1 m/s (3.281ft/s) | 1 | 1 m/s (3.281ft/s) | 1 | 1 m/s (3.281ft/s) |
| | Typical consumption | 15 | 0W | 350 | W | 35 | 0W | 500 | W | 50 | W0 |
| Specifications | IP classification | IP54 | | IP54 | | IP | 54 | IP | 54 | IP | 54 |
| opecifications | 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) |
| | 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 |
| JAKA Lens 2D | Vision | >70mm*50mm | >35mm*25mm | >70mm*50mm | >35mm*25mm | >70mm*50mm | >35mm*25mm | >70mm*50mm | >35mm*25mm | >70mm*50mm | >35mm*25mm |
| parameters | 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 | 24 | FPS | 24F | PS | 24F | PS | 24F | PS | 24F | PS |
| | Input power | | DC3 | 0-60V | | | | DC30 | -60V | | |
| | Input current | | ≤4 | 0A | | | | ≤4 | A | | |
| | Size | | | mm (L×W×H) | | 180×28×47 mm (L×W×H) | | | | | |
| MiniCab cabinet | IP classification | IP | | P20 | | IP20 | | | | | |
| | I/O ports | | 7-way port; Input an | d output configurable | | | | 7-way port; Input and | l output configurable | | |
| | Communication mode | | TCP/IP, Modbus TCP, Modb | us RTU, Profinet, Ethernet | t/IP | | | TCP/IP, Modbus TCP, Modbu | us RTU, Profinet, Ethernet/I | P | |
| | Weight | | About 1.7 kg (incl | uding accessories) | | | | About 1.7 kg (inclu | iding accessories) | | |



| | Parameters | JAKA | A Pro 5 | JAKA | Pro 12 | JAKA | Pro 16 | | |
|-----------------|---------------------------|---|----------------------------------|---|---|---|----------------------------------|--|--|
| | 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) | | | |
| Basic | Reach | 954 mm (37.5 in) | | 1327 m | m (52.2 in) | 1713 mm | n (67.44 lb) | | |
| Parameter | 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 (comp | outer/pad/mobile phone) | Mobile terminal (comp | uter/pad/mobile phone) | | |
| | 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 | | |
| 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 | | |
| | Typical TCP speed | 1 | 1 m/s (3.281ft/s) | 1 | 1 m/s (3.281ft/s) | 1 | 1.5 m/s (4.921ft/s) | | |
| | Typical consumption | 350W | | 50 | 500W | | 50W | | |
| | IP classification | IP68 | | IP68 | | IF | P68 | | |
| Specifications | | 2 Digit | al inputs | 2 Digit | tal inputs | 2 Digit | al inputs | | |
| opeoineations | Tool I/O ports | 2 Digital outputs | | 2 Digita | al 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) | | | |
| | IP classification | IP44 | | IP44 | | IP44 | | | |
| | I/O ports | 16 digital inputs, 16 digital out | puts, 2 analog inputs or outputs | 16 digital inputs, 16 digital out | 16 digital inputs, 16 digital outputs, 2 analog inputs or outputs | | puts, 2 analog inputs or outputs | | |
| | Communication mode | TCP/IP, Modbus TCP, Modb | bus 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 supply | 100-240VAC, 50-60Hz | | 100-240VAC, 50-60Hz | | 100-240VAC, 50-60Hz | | | |
| | Size | 410×307×235 | 5 mm (W×H×D) | 410×307×23 | 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 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

| 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 |

Integrated design

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

highly effective addition to our cobots.

| 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, sing | gle frame processing time within 1s | |

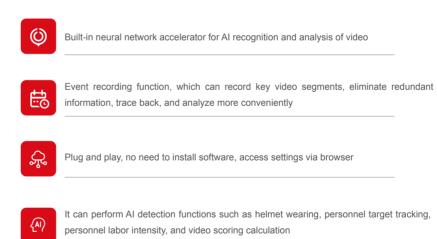
JAKA Lens VPS

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



Basic parameters

| Hardware platform | CMOS camera, embedded system, DSP, Al engine, etc. | Resolution | 8.3 MP |
|-------------------------|--|---------------------|--------------------------|
| Dimensions | 81×50×64mm | Response time | ≤100 ms |
| Installation method | Directly above, sideways (suggested install at 45°) | Installation height | ≥3m (suggested) |
| Communication interface | Ethernet interface, RS485, PNP optocoupler isolation DI and DO | Coverage surface | 4 m x 2.1 m (adjustable) |





Visual protection system working diagram

Visual parameters

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.





| JAKA | JAKA |
|---------------|-------------|
| JAKA MiniCobo | JAKA Mini 2 |
| | |

| | Parameter | JAKA MiniCobo | JAKA Mini 2 | | | |
|------------------|-------------------------------|-----------------------------------|-------------------------------|--|--|--|
| | 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) | | | |
| Product features | Repeatability | ±0.1 mm (±0.003937 in) | ±0.1 mm (±0.003937 in) | | | |
| | Degree of freedom | (| 6 | | | |
| | Programming | Graphical progra | mming, free-drive | | | |
| | Demonstrator type | Mobile terminal (comp | uter/pad/mobile phone) | | | |
| | Collaborative operation | Collaborative operation | n as ISO 10218-1: 2011 | | | |
| | Joint | Range o | of action | | | |
| | Joint 1 | ±3 | 60° | | | |
| | Joint 2 | ±1: | 25° | | | |
| Working range | Joint 3 | ±1: | 30° | | | |
| and speed | Joint 4 | ±3 | 60° | | | |
| | Joint 5 | ±1: | 20° | | | |
| | Joint 6 | ±3 | 60° | | | |
| | Typical TCP speed | 1 m/s (3.28 ft/s) | | | | |
| | Typical consumption | 150W | 180W | | | |
| | Rated voltage | 24VDC | 48VDC | | | |
| | Temperature range | 0-50°C | 0-50°C | | | |
| | IP classification | IP40 | IP40 | | | |
| | Installation | At any angle | | | | |
| | | 2 Digital inputs | | | | |
| Specifications | Tool I/O | 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) | | | | |
| | Power input | 20-60 | OVDC | | | |
| | Current | ≤40A | | | | |
| | Size | 180×128×47 mm (L×W×H) | | | | |
| | IP classification | IP20 | | | | |
| MiniCab eabinat | I/O | 7 Digital input: I/O configurable | | | | |
| MiniCab cabinet | I/O Power | 24VDC | | | | |
| | Installation | Panel/G | uide Rail | | | |
| | Communication mode | TCP/IP, Modbus TCP, Modb | us RTU, Profinet, Ethernet/IP | | | |
| | Weight | 1.1 kg (| (2.43 lb) | | | |
| | Material | Alummin | um. Steel | | | |

Free Your Hands by JAKA Product selection guide