



JAKA Zu[®] 3 Cobot



Weight 12kg



Payload 3kg



Working radius Repeatability 626mm



±0.02mm



Product Features

- Lighter self-weight: Self-weight 12kg, payload 3kg, working radius up to
- More flexible and portable: Light weight design, higher efficiency, faster and more convenient customer deployment.
- Higher precision: Able to adapt to tight space installation, flexible production line with high precision and density requirement.



3C electronics, Medical treatments, Scientific researches, Injection molding







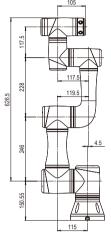




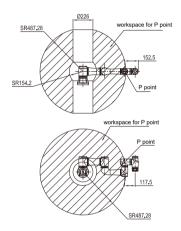
Payload	3kg
Weight (W cable)	12kg
Work radius	626mm
Repeatability	±0.02mm
Axis	6
Programming	Graphical programming, free-drive
Teach pendant	MT (PAD/Mobile) APP
Collaborative operation	Accordance with GB 11291.1-2011

Robot	Work scope	Max speed
Joint 1	±360°	180°/s
Joint 2	-85°,+265°	180°/s
Joint 3	±175°	180°/s
Joint 4	-85°,+265°	220°/s
Joint 5	±360°	220°/s
Joint 6	±360°	220°/s
Max speed	/	1.5m/s

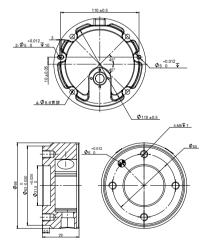
Rated power	150W
Temperature range	0-50°C
IP Specification	IP54
Installation	Installation at any angle
Tool I/O	Digital input 2
	Digital output 2
	Analog input 1
Tool I/O power	24V
Tool I/O size	M8
Materials	Aluminum, PC
base diameter	129mm
Cable length	6m



JAKA Zu® 3 work radius



JAKA Zu $^{\!\scriptscriptstyle 0}$ 3 $\,$ P point front view / top view



JAKA Zu® 3 base / flange





JAKA Zu[®] 5 Cobot



Weight 23kg



Payload 5kg



Working radius 954mm



Repeatability ±0.02mm



Product Features

- Compact and portable: Self-weight 23kg, payload 5kg, working radius up to 954mm.
- High flexibility: Rapid deployment, saving staff working time, optimizing productivity.
- •Well adaptability: Meeting the requirements of lightweight operations such as loading and unloading, detection assembly, etc..



Metal processing, 3C electronics, Chemical industry







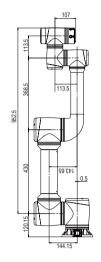




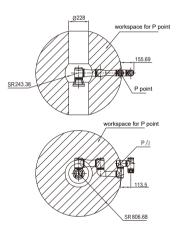
Payload	5kg
Weight (W cable)	23kg
Work radius	954mm
Repeatability	±0.02mm
Axis	6
Programming	Graphical programming, free-drive
Teach pendant	MT (PAD/Mobile) APP
Collaborative operation	Accordance with GB 11291.1-2011

Robot	Work scope	Max speed
Joint 1	±360°	180°/s
Joint 2	-85°,+265°	180°/s
Joint 3	±175°	180°/s
Joint 4	-85°,+265°	180°/s
Joint 5	±360°	180°/s
Joint 6	±360°	180°/s
Max speed	/	3m/s

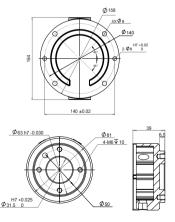
Rated power	350W
Temperature range	0-50°C
IP Specification	IP54
Installation	Installation at any angle
Tool I/O	Digital input 2
	Digital output 2
	Analog input 1
Tool I/O power	24V
Tool I/O size	M8
Materials	Aluminum, PC
base diameter	158mm
Cable length	6m



JAKA Zu[®] 5 work radius



JAKA Zu^{\circledR} 5 P point front view / top view



JAKA Zu[®] 5 base / flange





JAKA Zu® 7 Cobot



Weight 22kg



Payload 7kg



Working radius 819mm



Repeatability ±0.02mm



Product Features

- •Heavier payload: Self-weight 22kg, payload 7kg, working radius up to 819mm.
- Higher cost performance: Good versatility and flexibility enable it to truly achieve plug-and-play, 5-minute production line layout in any production environ ment.
- Higher applicability: Multi-field applications, automotive and accessories, 3C electronic, precision manufacturing, renewable energy, medical instruments, chemical fiber and other fields of loading and unloading, detection and handling.







Recommended Markets

3C electronics, Medical treatments, Automotive industry, Chemical industry

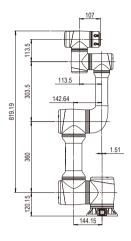




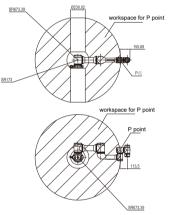
Payload	7kg
Weight (W cable)	22kg
Work radius	819mm
Repeatability	±0.02mm
Axis	6
Programming	Graphical programming, free-drive
Teach pendant	MT (PAD/Mobile) APP
Collaborative operation	Accordance with GB 11291.1-2011

Robot	Work scope	Max speed
Joint 1	±360°	180°/s
Joint 2	-85°,+265°	180°/s
Joint 3	±175°	180°/s
Joint 4	-85°,+265°	180°/s
Joint 5	±360°	180°/s
Joint 6	±360°	180°/s
Max speed	/	2.5m/s

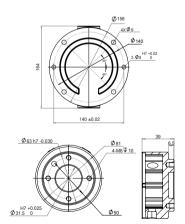
Rated power	350W	
Temperature range	0-50°C	
IP Specification	IP54	
Installation	Installation at any angle	
Tool I/O	Digital input 2	
	Digital output 2	
	Analog input 1	
Tool I/O power	24V	
Tool I/O size	M8	
Materials	Aluminum, PC	
base diameter	158mm	
Cable length	6m	



JAKA Zu[®] 7 work radius



JAKA $\mathrm{Zu}^{\mathrm{@}}$ 7 P point front view / top view



JAKA Zu[®] 7 base / flange





JAKA Zu[®] 12 Cobot



Weight 41kg



Payload 12kg



1327mm



Working radius Repeatability ±0.03mm



Product Features

- •Heavier payload: Self-weight 41kg, 12kg payload, working radius up to 1327mm.
- Flexible deployment: Easy to switch installation mode/location, lower require ments on deployment environment.
- •Function more: Replacing heavy physical handling work, filling more industry blank.



Metal processing, Automotive industry, Injection molding, Pharmaceutical and chemical industry, etc.







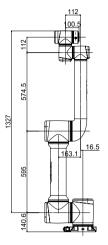




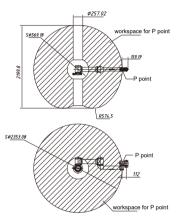
Payload	12kg
Weight (W cable)	41kg
Work radius	1327mm
Repeatability	±0.03mm
Axis	6
Programming	Graphical programming, free-drive
Teach pendant	MT (PAD/Mobile) APP
Collaborative operation	Accordance with GB 11291.1-2011

Robot	Work scope	Max speed
Joint 1	±360°	120°/s
Joint 2	-85°,+265°	120°/s
Joint 3	±175°	120°/s
Joint 4	-85°,+265°	180°/s
Joint 5	±360°	180°/s
Joint 6	±360°	180°/s
Max speed	/	3m/s

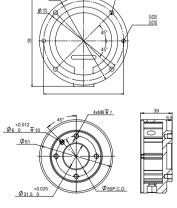
Rated power	500W
Temperature range	0-50°C
IP Specification	IP54
Installation	Installation at any angle
Tool I/O	Digital input 2
	Digital output 2
	Analog input 1
Tool I/O power	24V
Tool I/O size	M8
Materials	Aluminum, PC
base diameter	188mm
Cable length	6m



JAKA Zu[®] 12 work radius



JAKA $\mathrm{Zu}^{\mathrm{@}}$ 12 P point front view / top view



JAKA Zu[®] 12 base / flange





JAKA Zu[®] 18 Cobot



Weight 35kg



Payload 18kg



Working radius 1073mm



Repeatability ±0.03mm



Product Features

- •Heavy payload: Self-weight 35kg, 18kg payload, working radius up to 1073mm.
- **High security:** Multiple safety protection, cooperating safely with workers, robot and surrounding environment.
- Wide application: Various application scenarios of heavy load cobots







Recommended Markets

Metal processing, Automotive, Injection molding, Medical equipment



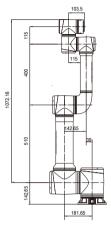


Parameters and Layout of JAKA Zu® 18

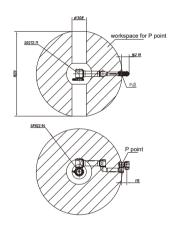
Payload	18kg
Weight (W cable)	35kg
Work radius	1073mm
Repeatability	±0.03mm
Axis	6
Programming	Graphical programming, free-drive
Teach pendant	MT (PAD/Mobile) APP
Collaborative operation	Accordance with GB 11291.1-2011

Robot	Work scope	Max speed
Joint 1	±360°	120°/s
Joint 2	-85°,+265°	120°/s
Joint 3	±175°	120°/s
Joint 4	-85°,+265°	180°/s
Joint 5	±360°	180°/s
Joint 6	±360°	180°/s
Max speed	/	3.5m/s

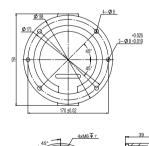
Rated power	600W	
Temperature range	0-50°C	
IP Specification	IP54	
Installation	Installation at any angle	
Tool I/O	Digital input 2	
	Digital output 2	
	Analog input 1	
Tool I/O power	24V	
Tool I/O size	M8	
Materials	Aluminum, PC	
base diameter	188mm	
Cable length	6m	
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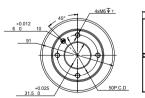


JAKA Zu[®] 18 work radius



JAKA $\mathrm{Zu}^{\mathrm{@}}$ 18 P point front view / top view







JAKA Zu[®] 18 base / flange







JAKA Zu 20 is our new collaborative robot, designed for tasks that require heavier payload and extended reach.

This cutting-edge robot builds upon the renowned qualities of the JAKA Zu series, offering simplicity, safety, reliability, and precision. With an impressive reach of 1780 mm and a payload capacity of 20 kg, it excels in heavy-duty and large-capacity applications. The IP65 protection adds an extra layer of reliability and resilience, ensuring the Zu 20 is also suitable for industrial environments where dust, dirt and water are present.

From machine tending to material handling, welding to dispensing, palletizing to packaging, the JAKA Zu 20 is your ultimate partner for diverse industrial needs.



JAKA Zu 20 Technical Specification

	Payload	20 kg / 44.1 lbs		
General	Reach	1780 m	1780 mm / 70.1 in	
Specification —	Degrees of freedom	6 rotat	6 rotating joints	
opecification	Typical power		50 W	
	Operating temperature range	Ambient temperature: 0-50 °C (14-122 °F)		
	Typical TPC speed	1,	5 m/s	
	Repeatability	±0,05 mm		
	Axis movement	Working range	Maximum speed	
Movement	Joint 1	±360°	120°/s	
	Joint 2	-85°-+265°	120°/s	
	Joint 3	±175°	120°/s	
	Joint 4	-85°-+265°	220°/s	
	Joint 5	±360°	220°/s	
	Joint 6	±360°	220°/s	
Enclosure type		li li	P 65	
Features	Mounting	Any orientation		
Physical	Base	246 mm (4 x M12)		
	Material	Aluminum, PVC, steel		
	Cable length(Robot arm)	6 m / 2	36 inches	
	Weight	65 kg / 149.9 lbs		
	Humidity	10~90% RH		

CAB Specification

	Enclosure type	IP 44	
Features	Humidity	10~90%RH	
	I/O Ports		
	Digital In	16	
	Digital Out	16	
	Analog In	2	
	Analog Out	2	
	HSI	3	
	I/O Power supply 24V,1,5A		
	Communication	Modbus,Profinet,Ethernet/IP	
	Power source	100-240 VAC, 50-60 Hz	
Physical	Size(W x H x D)	410 x 307 x 235 mm / 16.1 x 12.1 x 9.3 in	
	Material	Sprayed carbon steel	
	Cable length(Control cabinet)	3 m / 118.1 inches	
	Weight	18 kg / 39.7 lbs	

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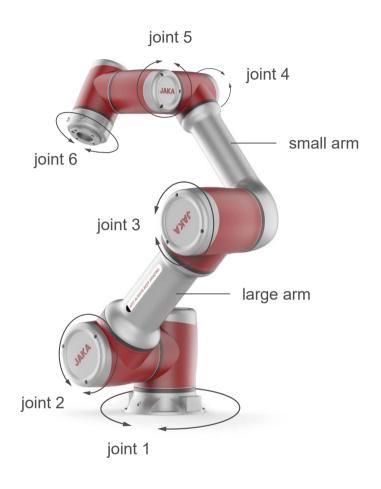








JAKA Zu® Structure and Control Cabinet



Control Cabinet	IP Specification	IP44
	I/O Power	16 Digital input/16 Digital output /2 Analog input or output
	Tool I/O	24V
JAKA	Communication	TCP/IP, Modbus TCP, Modbus RTU
	Power	100-240VAC, 50-60Hz
	Size	410×307×235 (mm) (W×H×D)
	Weight	12kg (Zu 3,Zu 5, Zu 7) / 16kg (Zu 12, Zu 18)
	Material	Stainless steel

Palletizing - Efficient and Stable

Faster pace

Utilized with the most time optimal trajectory algorithm and joint ratio, Zu 20 achieves top-notch speed.

Reach 3 m/s — the maximum end speed.

The product is an excellent choice for a wide range of palletizing tasks across various industries, including but not limited to food, beverage, and biomedical sectors.



Loading and Unloading - Safe and Reliable

Longer Reach

Extending cobot's effective picking space and covering more industry scenarios.

Higher Accuracy

Industry-leading ±0,05 mm repeatability ensures high-quality production.

Stronger IP-Level

IP65 level of protection against dust and water in loading and unloading scenarios with harsh and complex working conditions.





Handling - Comprehensive Upgrade

Heavier Payload

Suitable for more heavy-duty workpiece scenarios such as automotive drive shaft, gearbox component handling.

More Flexible Assembly

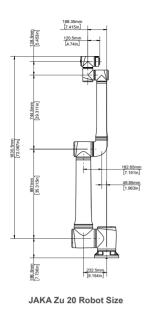
Robots can be mounted in any direction and angle meeting diverse layout needs of the factory.

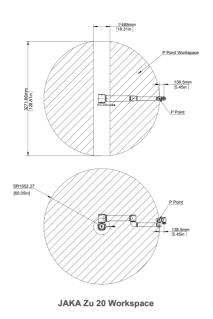
Simpler Operation

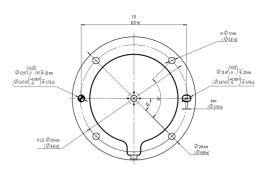
Rich application packages and graphical user interfaces improve worker efficiency.

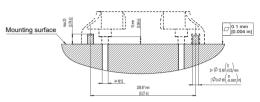


JAKA Zu 20 dimension



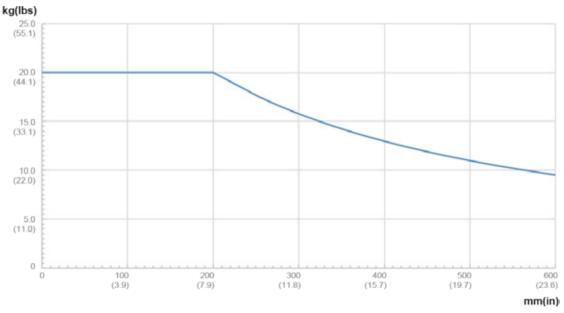






JAKA Zu 20 Base Drawing

JAKA Zu 20 payload offset



■ JAKA Zu 20 flange drawing

