yasaka

PRODUCT
CATALOGUE

FAIRINO

CONTACT US

Yasaka Automation Pvt. Ltd

W-200, TTC Industrial Estate, Khairne, Thane Belapur Road
Navi Mumbai- 400708
Tel: + 91 85919 74708 **Email**:- sales@yasaka.co.in

FAIRINO

yasaka

CONTENTS

01

PRODUCTS P 01

SPECIFICATION P 03

ACCESSORY P 07

02

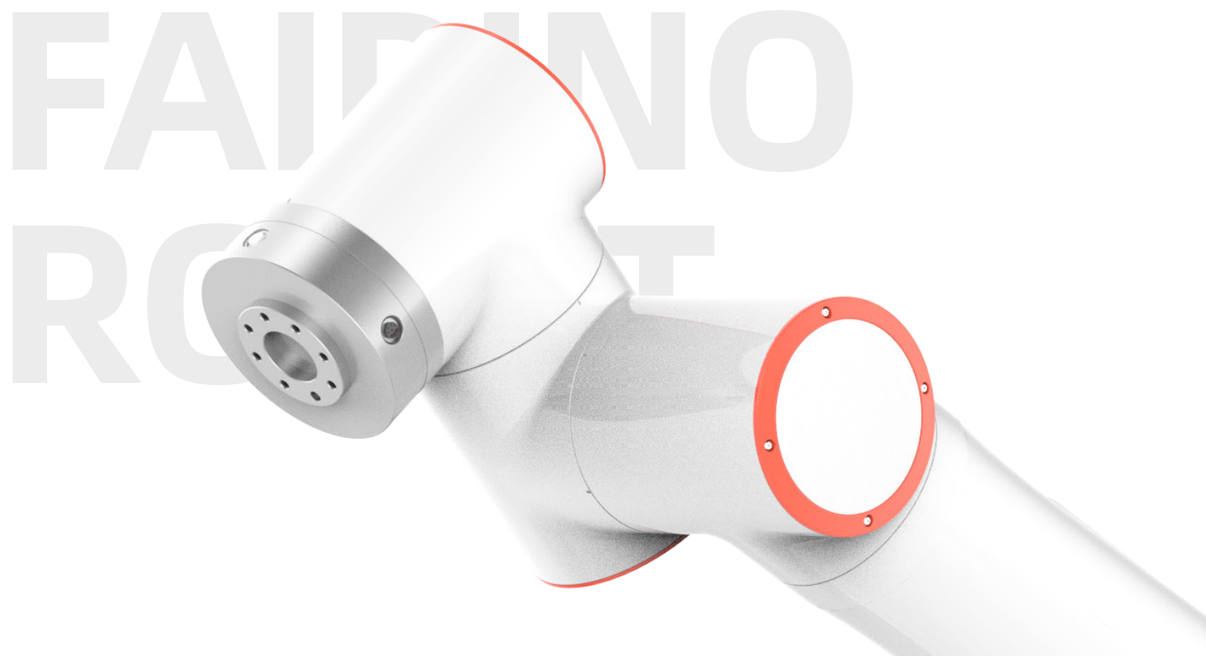
APPLICATIONS P 09

03

ABOUT US P 15

04

DRAWINGS P 17



Intelligent human-robot cooperation system solutions

According to different payload and parameter, FAIRINO collaborative robots FR series are divided into six models: FR3, FR5, FR10, FR16, FR20 and FR30.

To provide partners&customers with better quality assurance,FAIRINO has obtained a more comprehensive range of certificates through international certification organizations.

Quality Management System: ISO 9001

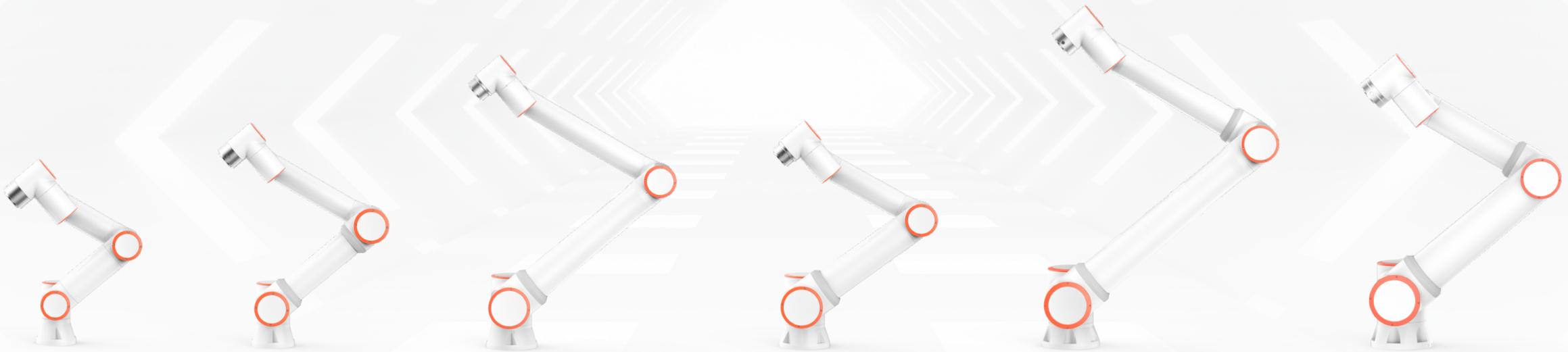
Product Certification: CR, CE, KCs, NRTL, RoHS 2.0, NSF, SEMI, IP65

ISO Functional Safety Certification: ISO 10218, ISO 13849, ISO 15066

FAIRINO

yasaka

PRODUCT DISPLAY



FR3 FR5 FR10 FR16 FR20 FR30

FAIRINO

yasaka

ROBOT ARM TECHNICAL SPECIFICATION

	FR3	FR5	FR10	FR16	FR20	FR30
Payload	**3kg**	**5kg**	**10kg**	**16kg**	**20kg**	**30kg**
Reach	**622mm**	**922mm**	**1400mm**	**1034mm**	**1854mm**	**1403mm**
Degrees of freedom	6 rotating joints	6 rotating joints	6 rotating joints	6 rotating joints	6 rotating joints	6 rotating joints
HMI	10.1 inch teach pendant or mobile terminal Web App		10.1 inch teach pendant or mobile terminal Web App		10.1 inch teach pendant or mobile terminal Web App	
Pose repeatability per ISO 9283	**±0.02mm**	**±0.03mm**	**±0.05mm**	**±0.03mm**	**±0.1mm**	**±0.1mm**

Axis movement	Working range	Maximum speed	Working range	Maximum speed	Working range	Maximum speed	Working range	Maximum speed	Working range	Maximum speed	Working range	Maximum speed
Base	±175°	±180°/s	±175°	±180°/s	±175°	±120°/s	±175°	±120°/s	±175°	±120°/s	±175°	±120°/s
Shoulder	+ 85°/ - 265°	±180°/s	+ 85°/ - 265°	±180°/s	+ 85°/ - 265°	±120°/s	+ 85°/ - 265°	±120°/s	+ 85°/ - 265°	±120°/s	+ 85°/ - 265°	±120°/s
Elbow	±150°	±180°/s	±160°	±180°/s	±160°	±180°/s	±160°	±180°/s	±160°	±120°/s	±160°	±120°/s
Wrist 1	+ 85°/ - 265°	±180°/s	+ 85°/ - 265°	±180°/s	+ 85°/ - 265°	±180°/s	+ 85°/ - 265°	±180°/s	+ 85°/ - 265°	±180°/s	+ 85°/ - 265°	±180°/s
Wrist 2	±175°	±180°/s	±175°	±180°/s	±175°	±180°/s	±175°	±180°/s	±175°	±180°/s	±175°	±180°/s
Wrist 3	±175°	±180°/s	±175°	±180°/s	±175°	±180°/s	±175°	±180°/s	±175°	±180°/s	±175°	±180°/s
Typical TCP speed	1m/s		1m/s		1.5m/s		1m/s		2m/s		2m/s	
IP classification	IP54(IP65 Optional)		IP54(IP65 Optional)		IP54(IP65 Optional)		IP54(IP65 Optional)		IP54(IP65 Optional)		IP54(IP65 Optional)	

Noise	<65dB	<65dB	<65dB	<65dB	<70dB	<70dB
Robot mounting	Any orientation	Any orientation	Any orientation	Any orientation	Any orientation	Any orientation
I/O Ports	(DI) 2 (DO) 2	(DI) 2 (DO) 2	(DI) 2 (DO) 2	(DI) 2 (DO) 2	(DI) 2 (DO) 2	(DI) 2 (DO) 2
	(AI) 1 (AO) 1	(AI) 1 (AO) 1	(AI) 1 (AO) 1	(AI) 1 (AO) 1	(AI) 1 (AO) 1	(AI) 1 (AO) 1
Tool I/O power supply	24V/1.5A	24V/1.5A	24V/1.5A	24V/1.5A	24V/1.5A	24V/1.5A
Footprint	128mm	149mm	190mm	190mm	240mm	240mm
Weight	≈15kg	≈22kg	≈40kg	≈40kg	≈85kg	≈85kg
Operating temperature	0-45℃	0-45℃	0-45 ℃	0-45℃	0-45℃	0-45℃
Operating humidity	90%RH(non-condensing)	90%RH(non-condensing)	90%RH(non-condensing)	90%RH(non-condensing)	90%RH(non-condensing)	90%RH(non-condensing)
Materials	Aluminium、Steel	Aluminium、Steel	Aluminium、Steel	Aluminium、Steel	Aluminium、Steel	Aluminium、Steel

FAIRINO

yasaka

CONTROLLER TECHNICAL SPECIFICATION

DC MINI Controller

MINI Controller 2kw

Controller 4kw

Controller 6kw

Features	IP classification	IP54		IP54		IP54		IP54	
	Operating temperature	0-45℃		0-45℃		0-45℃		0-45℃	
	Operating humidity	90%RH(non-condensing)		90%RH(non-condensing)		90%RH(non-condensing)		90%RH(non-condensing)	
	I/O Ports	(DI) 16	(DO) 16	(DI) 16	(DO) 16	(DI) 16	(DO) 16	(DI) 16	(DO) 16
		(AI) 2	(AO) 2	(AI) 2	(AO) 2	(AI) 2	(AO) 2	(AI) 2	(AO) 2
		High speed pulse input 2		High speed pulse input 2		High speed pulse input 2		High speed pulse input 2	
	I/O power supply	24V/1.5A		24V/1.5A		24V/1.5A		24V/1.5A	
	Standard communication	I/O、TCP/IP、Modbus_TCP/RTU		I/O、TCP/IP、Modbus_TCP/RTU		I/O、TCP/IP、Modbus_TCP/RTU		I/O、TCP/IP、Modbus_TCP/RTU	
	Optional communication	CC-Link、Profinet、Ethernet/IP、EtherCAT		CC-Link、Profinet、Ethernet/IP、EtherCAT		CC-Link、Profinet、Ethernet/IP、EtherCAT		CC-Link、Profinet、Ethernet/IP、EtherCAT	
	Software development kit	C#/C++/Python/ROS/ROS2		C#/C++/Python/ROS/ROS2		C#/C++/Python/ROS/ROS2		C#/C++/Python/ROS/ROS2	
Physical	L*W*H	245*180*44.5mm (No protrusions)		245*180*44.5mm (No protrusions)		245*180*89mm (No protrusions)		320*183*100mm (No protrusions)	
	Weight	2.1kg (Cable weight included)		2.5kg (Cable weight included)		3.6kg (Cable weight included)		6.5kg (Cable weight included)	
	Materials	Galvanized plate		Galvanized plate		Galvanized plate		Galvanized plate	

FAIRINO

TEACH PENDANT [Optional]

All operations are gathered in the hand

The teach pendant, computer, tablet or mobile phone is connected to the WebAPP system to realize the operation of the collabroative robot.

- The user interface is more intuitive
- Wide range of technological packages
- Cloud deployment provides greater convenience

Features	IP classification	IP54
	Operating humidity	90%RH(non-condensing)
	Display resolution	1280 x 800 pixels
Physical	L*W*H	268*210*88mm
	Weight	1.6kg
	Materials	ABS、PP
	Cable length	5m

yasaka

SAFTY BOX

Human-cobot interaction tools for basic interaction functions. It can be linked with computers, tablets and other devices through the RJ45 interface, and directly log in to the Web App teaching interface.

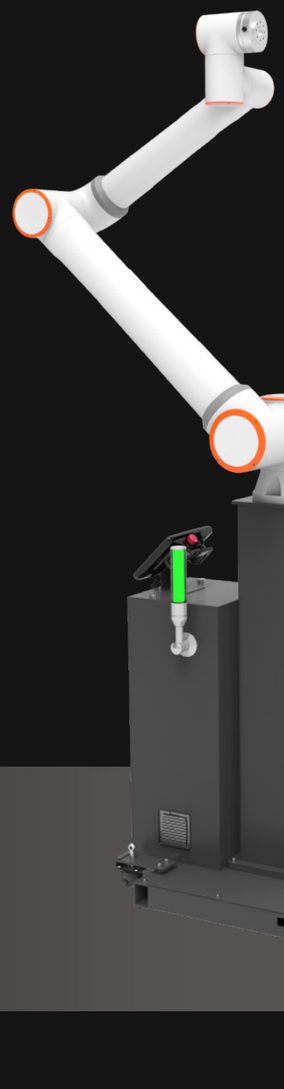
- Simple to use
- Easy to operate
- Flexible to deploy

Features	IP classification	IP54
	Button function	Manual/Auto, Drag, Point Record, Match or Not with Safety Button Box, Start/Stop, Shutdown
	Communication	TCP/IP
	Network transfer rate	100M
	Power over ethernet	Standard POE
Physical	L*W*H	136*60*66mm (No protrusions)
	Weight	490g (Cable weight included)
	Materials	ABS
	Cable length	5m
	Number of keys	≥20W 次

FAIRINO

INDUSTRY

Abundant welding process kits, with a variety of welding technologies, seam welding, straight welding, oscillating welding, arc welding, and multi-layer multi-pass welding. It also incorporates intelligent welding technologies for wire positioning and weld seam tracking, significantly enhancing welding efficiency and ensuring welding quality.



Palletizing Solution

In modern enterprises, palletizing work is very common. Due to the low efficiency of manual handling, many companies have introduced robotic palletizing systems to automate this task.

Collaborative robots can perform round-the-clock automated palletizing work, effortlessly and quickly transporting goods to their destinations, saving time and energy. This frees employees from fatigue and repetitive tasks, allowing them to engage in more meaningful work. Additionally, there is no need for safety barriers, enabling true human-robot collaboration.

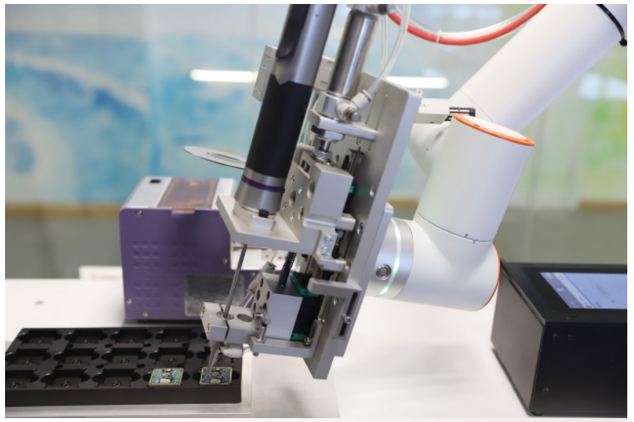
The platform utilizes a six-axis collaborative robot to accomplish palletizing work, offering easy deployment and quick utilization, truly enabling a plug-and-play experience.

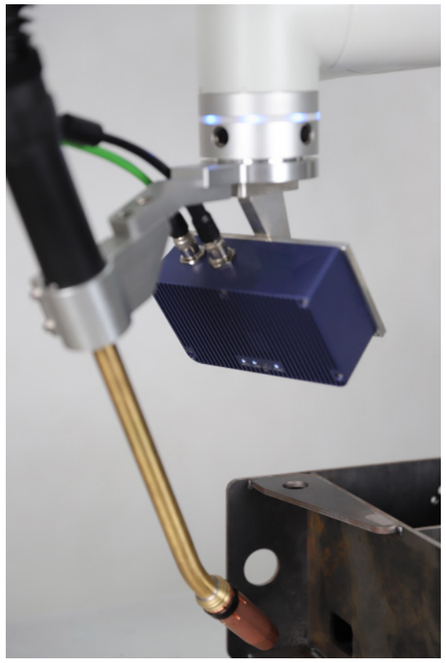
yasaka

Screw Tightening Solution

Combined with the end intelligent tightening device at the end, it achieves adjustable, controllable, and programmable torque, making it suitable for screw tightening in various scenarios. It can stably, efficiently, and accurately complete the production process, greatly reducing repetitive labor for workers and supporting data traceability.

- Safe and convenient
- Flexible deployment
- Flexible force control
- High efficiency in production





Welding Solution

Abundant welding process kits, with a variety of welding technologies such as spot welding, seam welding, straight welding, oscillating welding, arc welding, and multi-layer multi-pass welding. It also incorporates intelligent welding technologies for wire positioning and weld seam tracking, significantly enhancing welding efficiency and ensuring welding quality.

- Ultimate safety
- Flexible deployment
- Reduced entry barriers
- Multi-axis coordination
- High production efficiency

FAIRINO

yasaka

APPLICATIONS

Conveyor Belt Solution

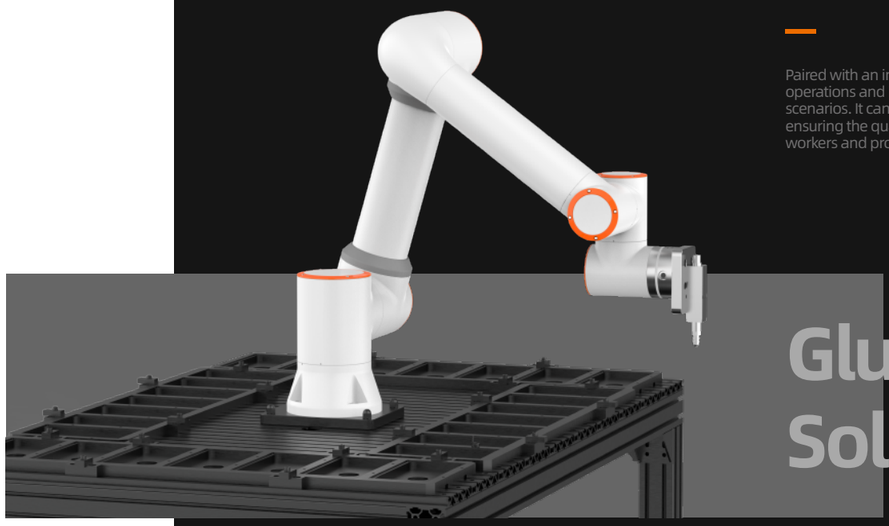
- Enhance work safety
- Reduce error rate and losses
- Data recording and traceability
- Real-time monitoring and feedback
- Improve production efficiency
- Accurate tracking and identification

Pick And Place Solution

Material handling robots can improve production efficiency, quality, and safety, reduce labor intensity, and provide flexibility and adaptability, bringing higher benefits and competitive advantages to businesses.

Education Solution

The platform includes common functions in the industrial field, such as gluing, tightening, and material handling, closely aligning with actual production line scenarios. It allows students to experience the real factory atmosphere up close in the classroom, making it an invaluable collaborative robot training platform in the field of education.



Paired with an intelligent dispensing device at the end effector, it enables precise operations and is suitable for precise gluing and dispensing tasks in various scenarios. It can achieve stable, efficient, and accurate adhesive application, ensuring the quality of the adhesive work. This greatly reduces repetitive labor for workers and protects their health.

Glue Dispending Solution

FAIRINO

COMMERCIAL

It has achieved integration of upper limb rehabilitation and lower limb exercise, reducing the barrier to entry through the reproduction of motion trajectories. By recording real-time feedback data, it significantly enhances safety performance. With various mode settings, it makes rehabilitation treatment more targeted, leading to a significant improvement in rehabilitation efficiency.

Rehabilitation Solution

Ultimate safety

Open platform

Data traceability

Reduced entry barriers

yasaka

Moxibustion Solution

It fully replicates the five major moxibustion techniques, offering hovering moxibustion, sparrow pecking moxibustion, rotating moxibustion, reciprocating moxibustion, and meridian moxibustion, thus reducing the barrier to entry for moxibustion. With the latest certifications, it is equipped with end collision detection, temperature control, and infrared distance measurement, providing triple protection to ensure the safety of moxibustion. It also has a built-in suction device to prevent inhalation of smoke and dust during the moxibustion process.

- Ultimate safety
- Flexible deployment
- Efficient moxibustion
- Lower barrier to entry

Cooperative robots can be applied in various types of new retail scenarios and can be customized according to different scenario requirements.Benefits include:
Cost-saving: They replace manual labor, reducing manpower costs while increasing work efficiency.
Consistent tea brewing: They ensure consistent taste regardless of different operators or different time points, eliminating variations caused by human factors.
Entertainment value: The robotic performance brings enjoyment to consumers, while employees can focus on more fulfilling and higher-paying jobs.
Cost-effective: They have low costs and provide a quick return on investment, resulting in good economic benefits.
Small footprint: They occupy less space, resulting in higher space utilization and adaptability to various innovative business models.

Automated Tea Solution

FAIRINO

yasaka

COMPANY PROFILE

FAIRINO ROBOT

FAIRINO is the collaborative robot company who has achieved independent R&D of all core components.

We focus on user experience and are dedicated to offering the industry with artificial intelligent robot system.

We provide customized components, complete machines and systems for industry customers, the open development platform provides more convenience and possibility for our partners.

FAIR, as always, provides values and grow together with customers and partners.

Welcome to the intelligent world of FAIRINO.

Lots of manufacturers have begun taking advantage of AIoT and human-machine collaboration. What can collaborative robots do for them?

Collaborative robots decrease manufacturing costs, increase the efficiency of production and enhance the skills of employees. They also offer better service quality and improve the customer experience. By providing the standardized functions and low deploying costs, cobots are widespread in commercial scenarios such as household chores, room cleaning and cooking.

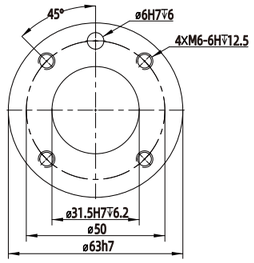
Cobots are believed to have unlimited potential and would be introduced to more scenarios in the future.

FAIRINO

yasaka

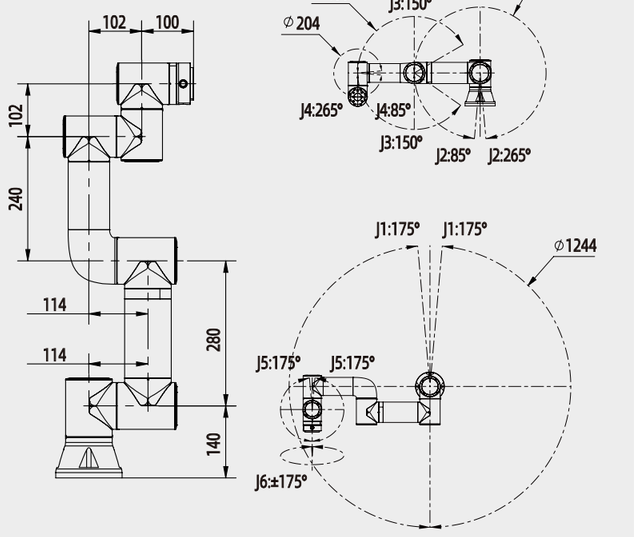
DRAWINGS

Unit : mm

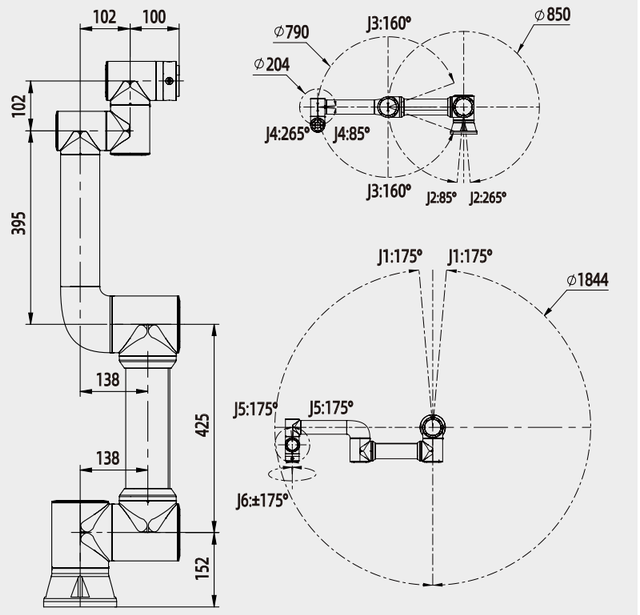


ROBOT END-EFFECTOR COMPATIBLE WITH
INDUSTRIAL ROBOT END-EFFECTOR CONNECTION METHODS

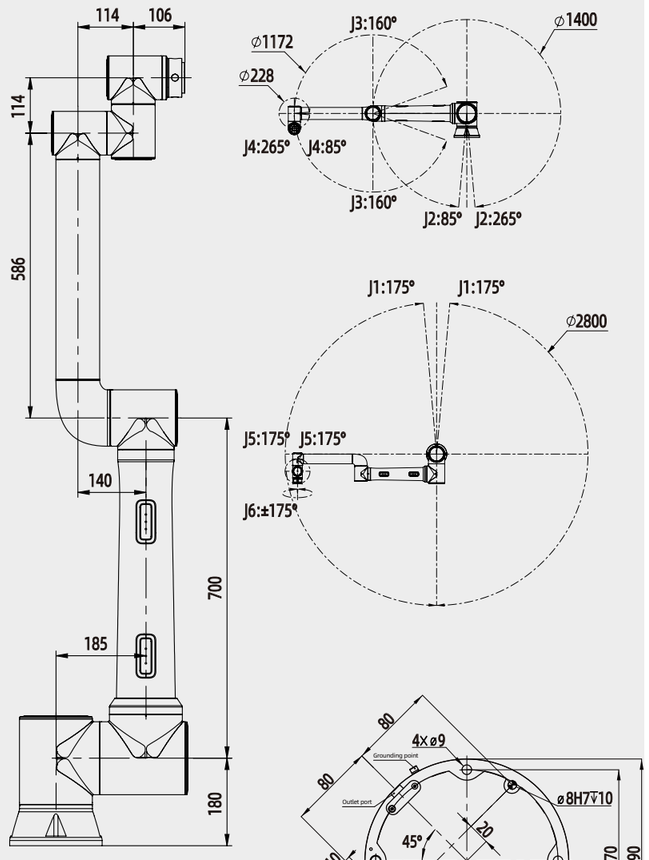
FR3

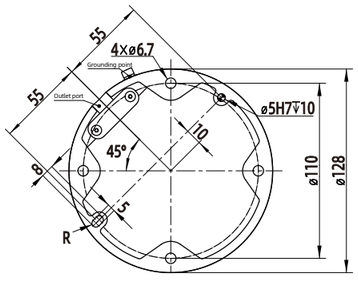


FR5

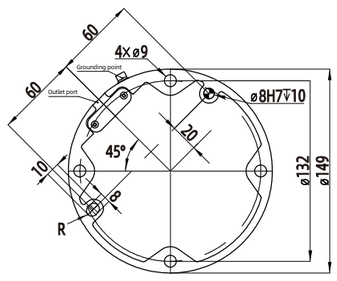


FR10





FR3 Pedestal diagram



FR5 Pedestal diagram

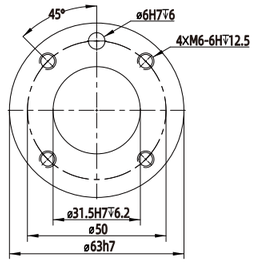
FR10 Pedestal diagram

FAIRINO

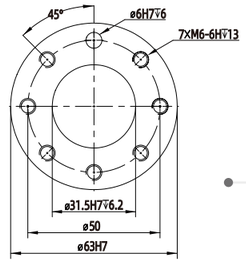
yasaka

DRAWINGS

Unit : mm

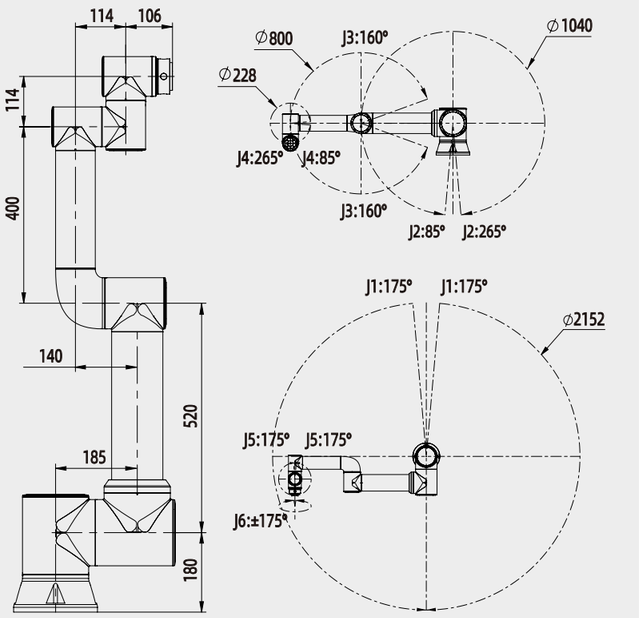


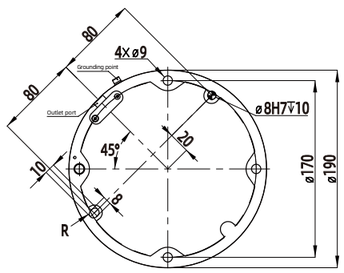
ROBOT END-EFFECTOR COMPATIBLE WITH
INDUSTRIAL ROBOT END-EFFECTOR CONNECTION METHODS



ROBOT END-EFFECTOR COMPATIBLE
WITH INDUSTRIAL ROBOT END-EFFECTOR CONNECTION METHODS

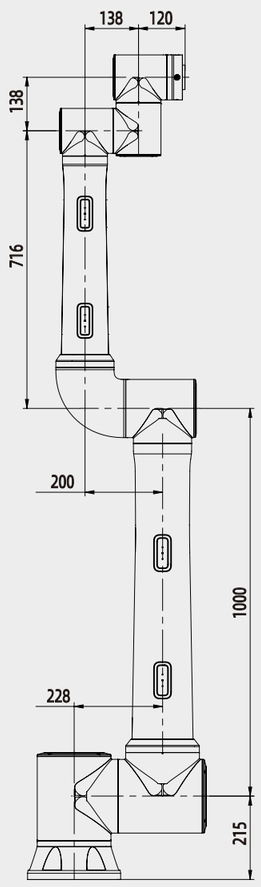
FR16

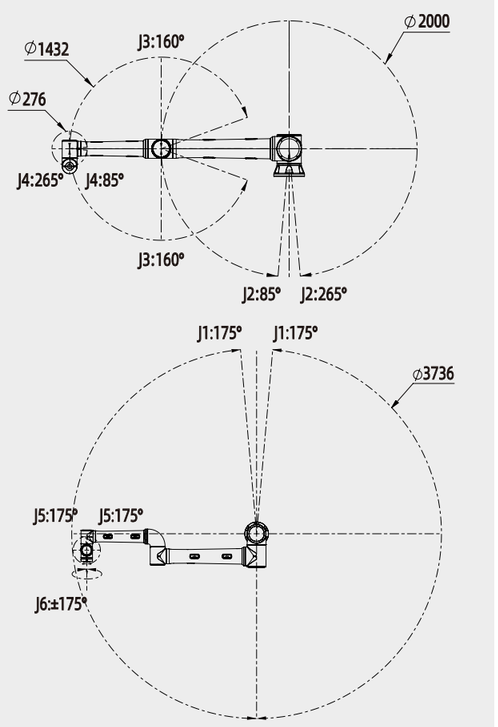


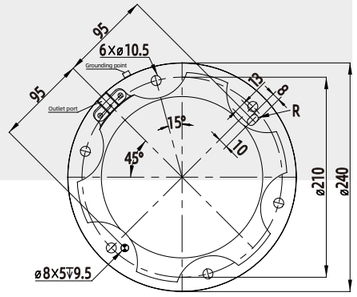


FR16 Pedestal diagram

FR20

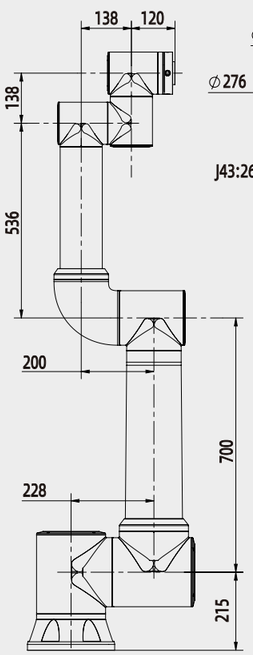


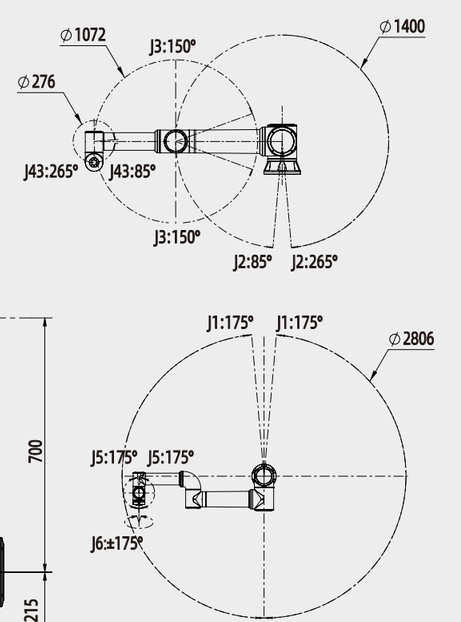


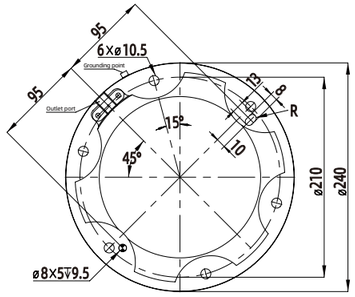


FR20 Pedestal diagram

FR30







FR30 Pedestal diagram

Make good robots for clients.

YASAKA ROBOT CATALOG 2024

yasaka

Professionals

Industrial robot control system

yasaka

About Us

YASAKA Robotics is a high-tech robot manufacturer providing Automation Solutions and Support to our customers. Our products are used in industrial automation such as welding, painting, handling, palletizing and polishing. And after years of development, our core technology has been widely used in the field of industrial robots in China. We have 90% of the robot controller market share in China, offering professional, timely service and complete robot application solutions. Our robot system is highly stable and matured. We’ re one of the earliest team who manufactures industrial robots.

Our industrial robot body and controller are developed by our company with independent intellectual property rights. The advantages are: highly cost-effective, well-knit compact structure, flexibility, high reliability, high speed, high precision, high expansibility, easy operation, easy maintenance. The motion of each joint of the robot is realized by a servo motor and a high precision and rigidity reducer with the integrated drive controller technology.

yasaka

WELDING ROBOT

YS10-1440-W

Faster, more accurate and more reliable.
Suitable for all types of CO_2/MAG/MIG/TIG welding and plasma cutting.

Robot specifications

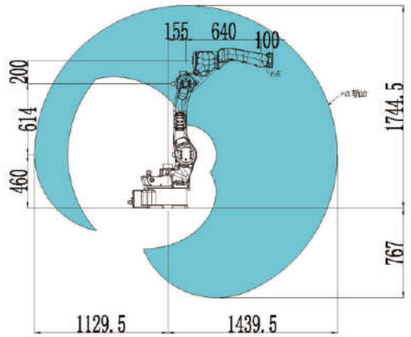
Basic data	
Model No.	YS10-1440-W
Number of axes	6
Maximum payload	10 kg
Maximum stroke	1440mm
IP class	J1, J2 - IP56; J3, J4, J5, J6- IP67
Mounting position	Floor type, wall type, ceiling type
Approx. weight	176 kg (without cabinet or welding machine)
Repeatability	±0.05 mm
Internal air duct	Φ10
Welding machines	·Aotai NBC-350RL (CO2/MAG/MIG, standard) • Aotai NBC-350/500RP (CO2/MAG/MIG, optional) • Aotai MIG-350/500/630RP (CO2/MAG/MIG, optional) • Aotai WSM-400R/WSME-315R (TIG, optional)
Motion range	
J1 axis S	±167°
J2 axis L	+80°~-145°
J3 axis U	+145°~-75°
J4 axis R	±190°
J5 axis B	+50°~-210°
J6 axis T	±220°

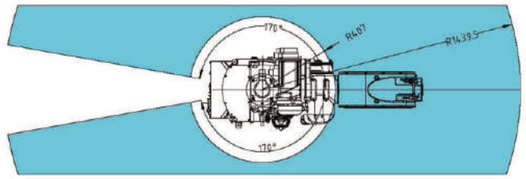
Speed with rated payload	
J1 axis S	285°/s
J2 axis L	247 °/s
J3 axis U	285 °/s
J4 axis R	392°/s
J5 axis B	272 °/s
J6 axis T	1353 °/s

Electrical cabinet specifications	
Dimensions	650*495*580mm
Approx. weight	60KG
Cooling method	Natural cooling
Input power	220VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	• 16 digital inputs • 16 digital outputs • 2 analog outputs (optional)
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

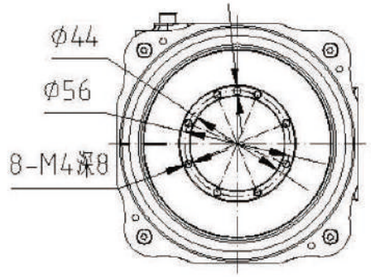
Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	• With no corrosive or combustible gas • With no water, oil or drug splashing • With no electromagnetic field nearby • With no radiations nearby

Working envelope (unit: mm)

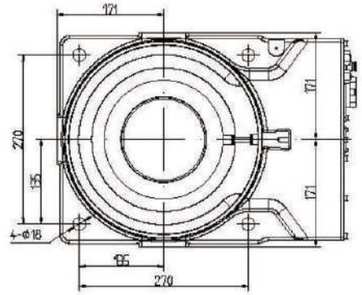




Flange and base dimensions (unit: mm)

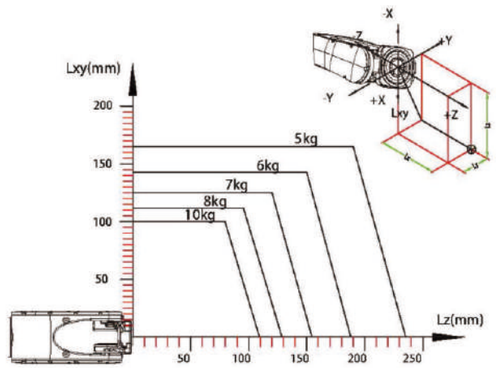


Flange



Base

Payload diagram



All data, drawings and specifications provided in this catalog are purely for information purposes and do not constitute a guarantee of these characteristics. The extent of goods delivered and services performed is determined by the subject matter of the specific contract. No liability accepted for errors or omissions.

yasaka

WELDING ROBOT

YS10-2000-W

Faster, more accurate and more reliable.
Suitable for all types of CO_2/MAG/MIG/TIG welding and plasma cutting.

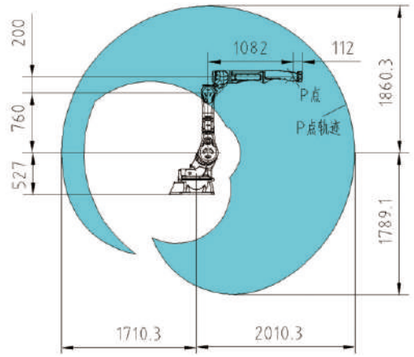
Robot specifications

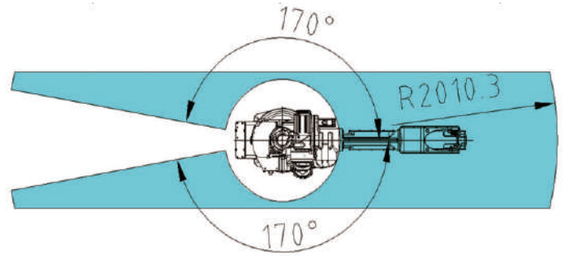
Basic data	
Model No.	YS06-2000-W
Number of axes	6
Maximum payload	10 kg
Maximum stroke	2010mm
IP class	J1, J2 - IP56; J3, J4, J5, J6- IP67
Mounting position	Floor type, wall type, ceiling type
Approx. weight	186 kg (without cabinet or welding machine)
Repeatability	±0.05 mm
Internal air duct	Φ10
Welding machines	·Aotai NBC-350RL (CO2/MAG/MIG, standard) • Aotai NBC-350/500RP (CO2/MAG/MIG, optional) • Aotai MIG-350/500/630RP (CO2/MAG/MIG, optional) • Aotai WSM-400R/WSME-315R (TIG, optional)
Motion range	
J1 axis S	±165°
J2 axis L	+80°~-145°
J3 axis U	+145°~-75°
J4 axis R	±190°
J5 axis B	+50°~-210°
J6 axis T	±220°
Speed with rated payload	
J1 axis S	203°/s
J2 axis L	203 °/s
J3 axis U	214°/s
J4 axis R	392 °/s
J5 axis B	276 °/s
J6 axis T	1356 °/s

Electrical cabinet specifications	
Dimensions	650*495*580mm
Approx. weight	60KG
Cooling method	Natural cooling
Input power	220VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	• 16 digital inputs • 16 digital outputs • 2 analog outputs (optional)
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

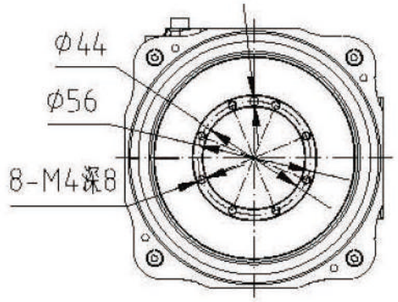
Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	• With no corrosive or combustible gas • With no water, oil or drug splashing • With no electromagnetic field nearby • With no radiations nearby

Working envelope (unit: mm)

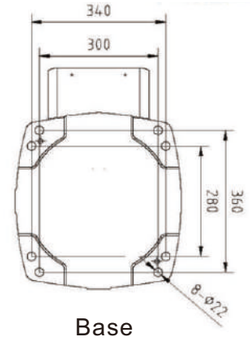




Flange and base dimensions (unit: mm)

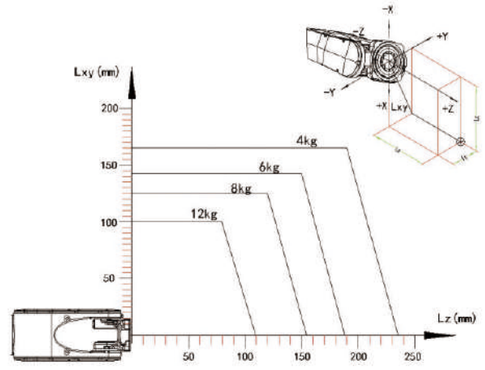


Flange



Base

Payload diagram



All data, drawings and specifications provided in this catalog are purely for information purposes and do not constitute a guarantee of these characteristics. The extent of goods delivered and services performed is determined by the subject matter of the specific contract. No liability accepted for errors or omissions.

yasaka

6-AXIS HANDLING ROBOT

YS07-930

Enclosed design, compact and agile.
Suitable for pick-n-place, machine tending and palletizing.

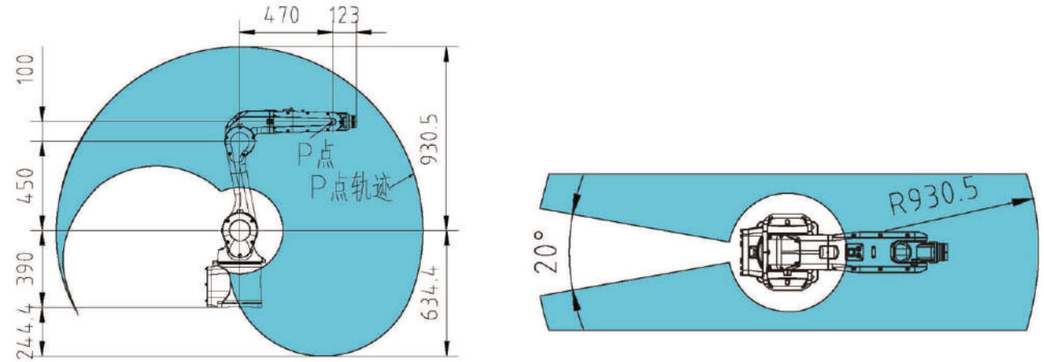
Robot specifications

Basic data	
Model No.	YS07-930
Number of axes	6
Maximum payload	7 kg
Maximum stroke	930mm
IP class	J1, J2, J3, J4, J5, J6- IP67
Mounting position	Floor type, wall type, ceiling type
Approx. weight	60 kg (without cabinet)
Repeatability	±0.05 mm
Internal air duct	Φ6
Motion range	
J1 axis S	±170°
J2 axis L	±110°
J3 axis U	+70°~-90°
J4 axis R	±200°
J5 axis B	±120°
J6 axis T	±360°
Speed with rated payload	
J1 axis S	338°/s
J2 axis L	245 °/s
J3 axis U	300 °/s
J4 axis R	262 °/s
J5 axis B	376 °/s
J6 axis T	600 °/s

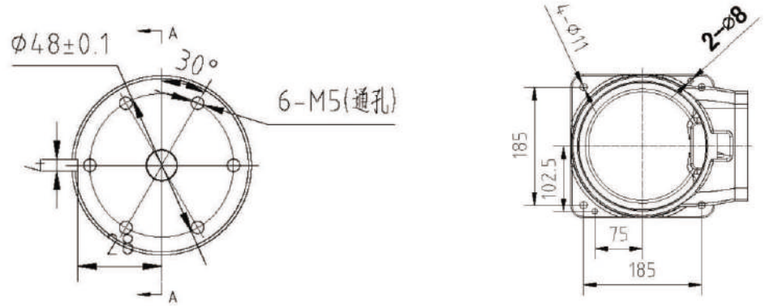
Electrical cabinet specifications	
Dimensions	490*400*365mm
Approx. weight	40KG
Cooling method	Natural cooling
Input power	220VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	• 16 digital inputs • 16 digital outputs • 2 analog outputs (optional)
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	• With no corrosive or combustible gas • With no water, oil or drug splashing • With no electromagnetic field nearby • With no radiations nearby

Working envelope (unit: mm)

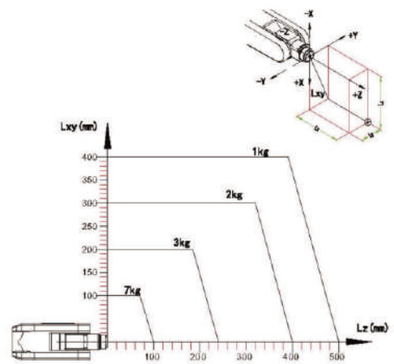


Flange and base dimensions (unit: mm)



Flange　　Base

Payload diagram



All data, drawings and specifications provided in this catalog are purely for information purposes and do not constitute a guarantee of these characteristics. The extent of goods delivered and services performed is determined by the subject matter of the specific contract. No liability accepted for errors or omissions.

yasaka

6-AXIS HANDLING ROBOT

YS10-1440

Fast, accurate and reliable.
Suitable for pick-n-place, machine tending, palletizing and painting.

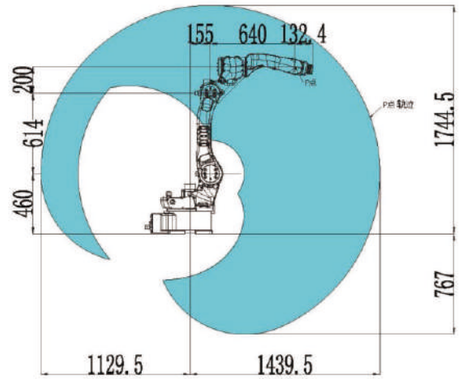
Robot specifications

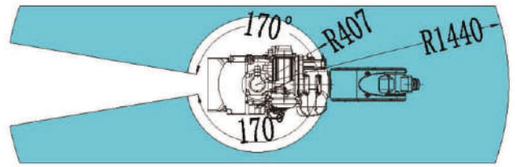
Basic data	
Model No.	YS10-1440
Number of axes	6
Maximum payload	10 kg
Maximum stroke	1440mm
IP class	J1, J2 - IP56; J3, J4, J5, J6- IP67
Mounting position	Floor type, wall type, ceiling type
Approx. weight	172 kg (without cabinet)
Repeatability	±0.05 mm
Internal air duct	Φ10
Motion range	
J1 axis S	±160°
J2 axis L	+80°~-145°
J3 axis U	+145°~-75°
J4 axis R	±190°
J5 axis B	+50°~-210°
J6 axis T	±360°
Speed with rated payload	
J1 axis S	199.5°/s
J2 axis L	174 °/s
J3 axis U	199.5°/s
J4 axis R	392 °/s
J5 axis B	272 °/s
J6 axis T	480 °/s

Electrical cabinet specifications	
Dimensions	650*495*580mm
Approx. weight	60KG
Cooling method	Natural cooling
Input power	220VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	• 16 digital inputs • 16 digital outputs • 2 analog outputs (optional)
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

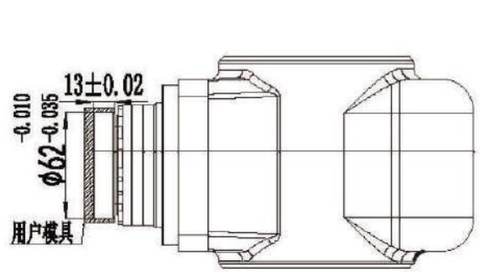
Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	• With no corrosive or combustible gas • With no water, oil or drug splashing • With no electromagnetic field nearby • With no radiations nearby

Working envelope (unit: mm)

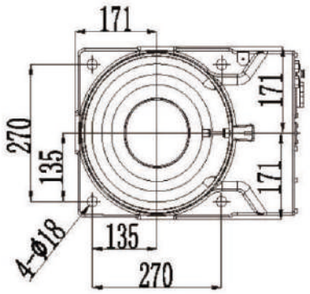




Flange and base dimensions (unit: mm)

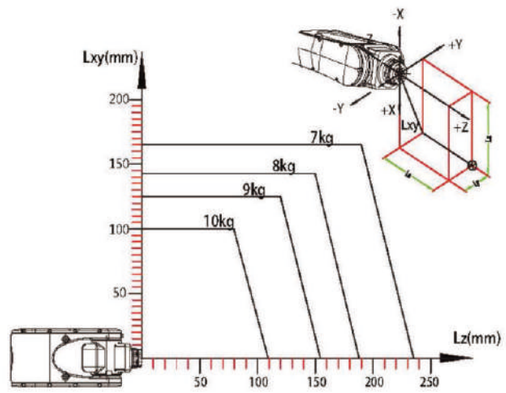


Flange



Base

Payload diagram



All data, drawings and specifications provided in this catalog are purely for information purposes and do not constitute a guarantee of these characteristics. The extent of goods delivered and services performed is determined by the subject matter of the specific contract. No liability accepted for errors or omissions.

6-AXIS HANDLING ROBOT

YS12-1550

Fast, accurate and reliable.
Suitable for pick-n-place, machine tending, palletizing and painting.

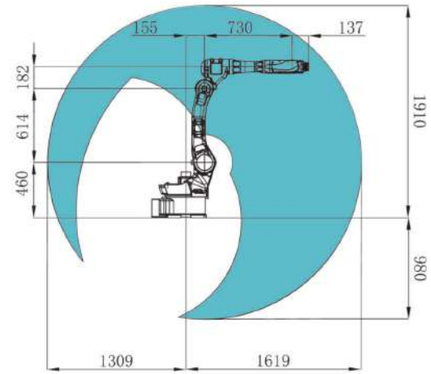
Robot specifications

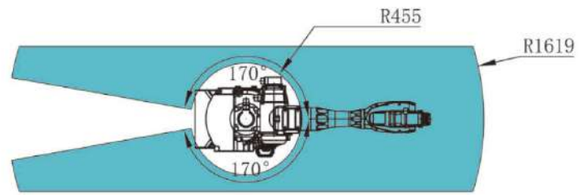
Basic data	
Model No.	YS12-1550
Number of axes	6
Maximum payload	12 kg
Maximum stroke	1550mm
IP class	J1, J2 - IP56; J3, J4, J5, J6- IP67
Mounting position	Floor type, wall type, ceiling type
Approx. weight	172 kg (without cabinet)
Repeatability	±0.05 mm
Internal air duct	Φ10
Motion range	
J1 axis S	±160°
J2 axis L	+80°~-145°
J3 axis U	+145°~-75°
J4 axis R	±190°
J5 axis B	+20°~-200°
J6 axis T	±360°
Speed with rated payload	
J1 axis S	257°/s
J2 axis L	223 °/s
J3 axis U	257°/s
J4 axis R	272 °/s
J5 axis B	275 °/s
J6 axis T	540 °/s

Electrical cabinet specifications	
Dimensions	650*495*580mm
Approx. weight	60KG
Cooling method	Natural cooling
Input power	220VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	• 16 digital inputs • 16 digital outputs • 2 analog outputs (optional)
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

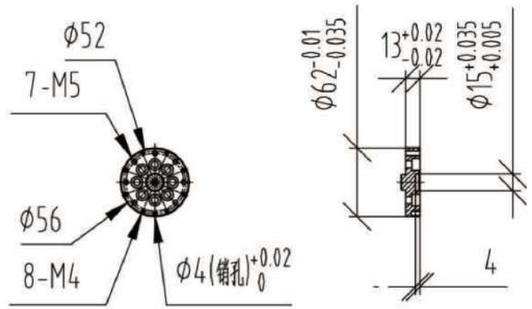
Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	• With no corrosive or combustible gas • With no water, oil or drug splashing • With no electromagnetic field nearby • With no radiations nearby

Working envelope (unit: mm)

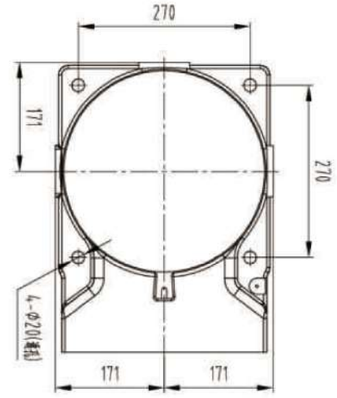




Flange and base dimensions (unit: mm)

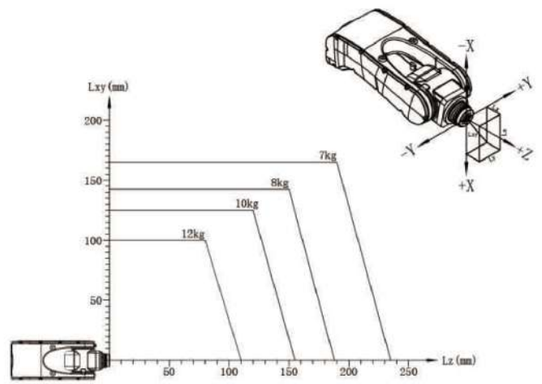


Flange



Base

Payload diagram



All data, drawings and specifications provided in this catalog are purely for information purposes and do not constitute a guarantee of these characteristics. The extent of goods delivered and services performed is determined by the subject matter of the specific contract. No liability accepted for errors or omissions.

yasaka

6-AXIS HANDLING ROBOT

YS10-2000

Special long-stroke design.
Suitable for pick-n-place and palletizing.

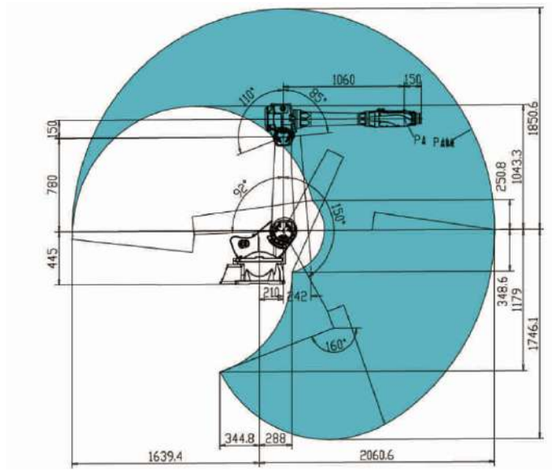
Robot specifications

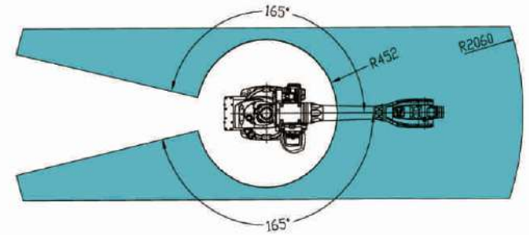
Basic data	
Model No.	YS10-2000
Number of axes	6
Maximum payload	10 kg
Maximum stroke	2050mm
IP class	J1, J2 - IP56; J3, J4, J5, J6- IP67
Mounting position	Floor type, wall type, ceiling type
Approx. weight	286kg (without cabinet)
Repeatability	±0.08 mm
Internal air duct	Φ10
Motion range	
J1 axis S	±167°
J2 axis L	+92°~-150°
J3 axis U	+110°~-85°
J4 axis R	±150°
J5 axis B	+20°~-200°
J6 axis T	±360°
Speed with rated payload	
J1 axis S	181°/s
J2 axis L	181 °/s
J3 axis U	190°/s
J4 axis R	375 °/s
J5 axis B	412°/s
J6 axis T	600°/s

Electrical cabinet specifications	
Dimensions	650*495*580mm
Approx. weight	80KG
Cooling method	Natural cooling
Input power	380VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	• 16 digital inputs • 16 digital outputs • 2 analog outputs (optional)
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

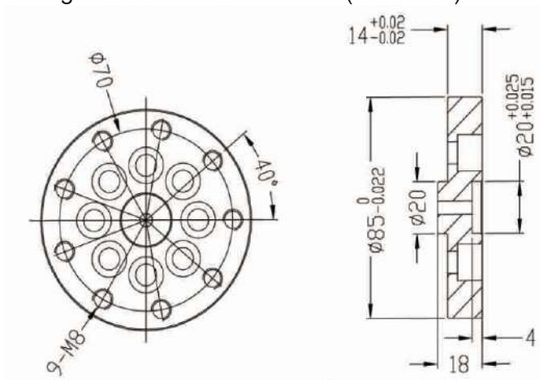
Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	• With no corrosive or combustible gas • With no water, oil or drug splashing • With no electromagnetic field nearby • With no radiations nearby

Working envelope (unit: mm)

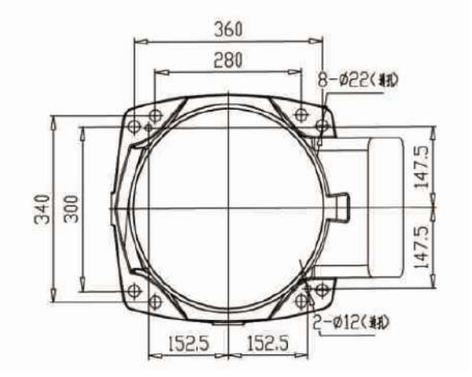




Flange and base dimensions (unit: mm)

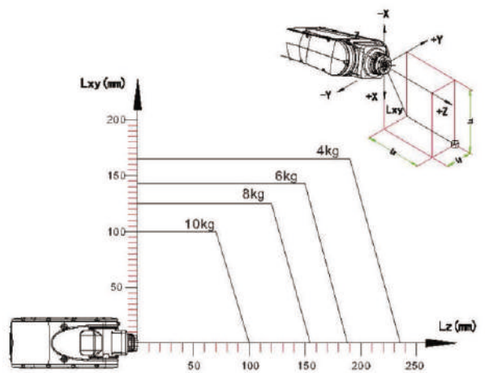


Flange



Base

Payload diagram



All data, drawings and specifications provided in this catalog are purely for information purposes and do not constitute a guarantee of these characteristics. The extent of goods delivered and services performed is determined by the subject matter of the specific contract. No liability accepted for errors or omissions.

yasaka

6-AXIS HANDLING ROBOT

YS20-1840

Fast, accurate and reliable.
Suitable for pick-n-place, machine tending, palletizing and painting.

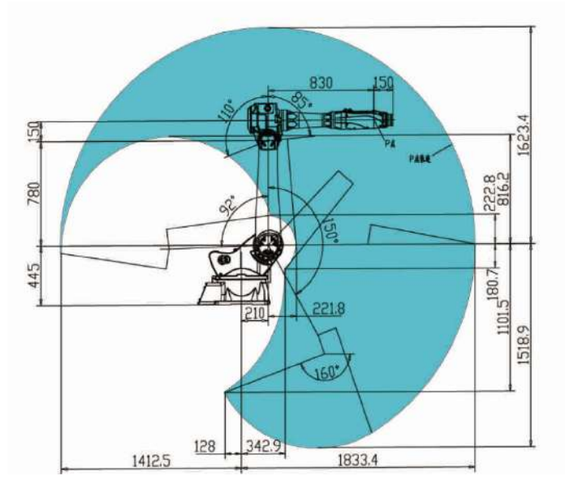
Robot specifications

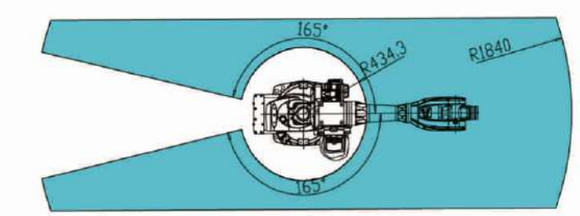
Basic data	
Model No.	YS20-1800
Number of axes	6
Maximum payload	20 kg
Maximum stroke	1840mm
IP class	J1, J2 - IP56; J3, J4, J5, J6- IP67
Mounting position	Floor type, wall type, ceiling type
Approx. weight	260 kg (without cabinet)
Repeatability	±0.08 mm
Internal air duct	Φ10
Motion range	
J1 axis S	±167°
J2 axis L	+92°~-150°
J3 axis U	+110°~-85°
J4 axis R	±150°
J5 axis B	+20°~-200°
J6 axis T	±360°
Speed with rated payload	
J1 axis S	223°/s
J2 axis L	223 °/s
J3 axis U	214°/s
J4 axis R	375 °/s
J5 axis B	412 °/s
J6 axis T	600 °/s

Electrical cabinet specifications	
Dimensions	650*495*580mm
Approx. weight	80KG
Cooling method	Natural cooling
Input power	380VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	• 16 digital inputs • 16 digital outputs • 2 analog outputs (optional)
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

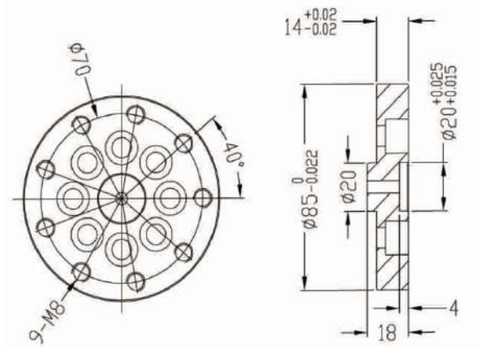
Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	• With no corrosive or combustible gas • With no water, oil or drug splashing • With no electromagnetic field nearby • With no radiations nearby

Working envelope (unit: mm)

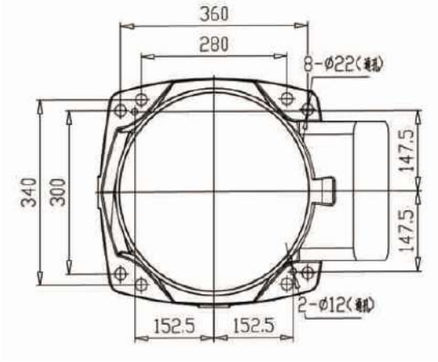




Flange and base dimensions (unit: mm)

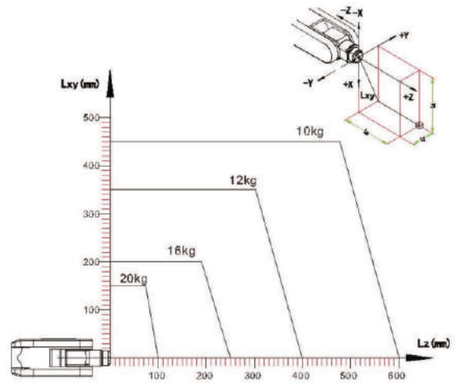


Flange



Base

Payload diagram



All data, drawings and specifications provided in this catalog are purely for information purposes and do not constitute a guarantee of these characteristics. The extent of goods delivered and services performed is determined by the subject matter of the specific contract. No liability accepted for errors or omissions.

yasaka

6-AXIS HANDLING ROBOT

YS30-1840

Fast, accurate and reliable.
Suitable for pick-n-place, machine tending, palletizing and painting.

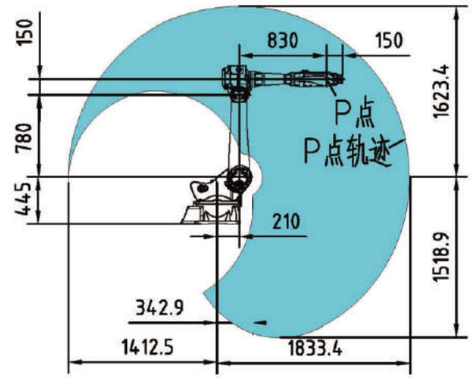
Robot specifications

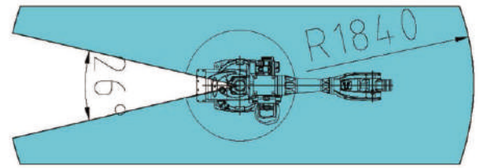
Basic data	
Model No.	YS30-1800
Number of axes	6
Maximum payload	30 kg
Maximum stroke	1840mm
IP class	J1, J2 - IP56; J3, J4, J5, J6- IP67
Mounting position	Floor type, wall type, ceiling type
Approx. weight	260 kg (without cabinet)
Repeatability	±0.08 mm
Internal air duct	Φ10
Motion range	
J1 axis S	±167°
J2 axis L	+92°~-150°
J3 axis U	+110°~-85°
J4 axis R	±150°
J5 axis B	+20°~-200°
J6 axis T	±360°
Speed with rated payload	
J1 axis S	200°/s
J2 axis L	198 °/s
J3 axis U	163°/s
J4 axis R	296 °/s
J5 axis B	333 °/s
J6 axis T	333 °/s

Electrical cabinet specifications	
Dimensions	650*495*580mm
Approx. weight	80KG
Cooling method	Natural cooling
Input power	380VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	• 16 digital inputs • 16 digital outputs • 2 analog outputs (optional)
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

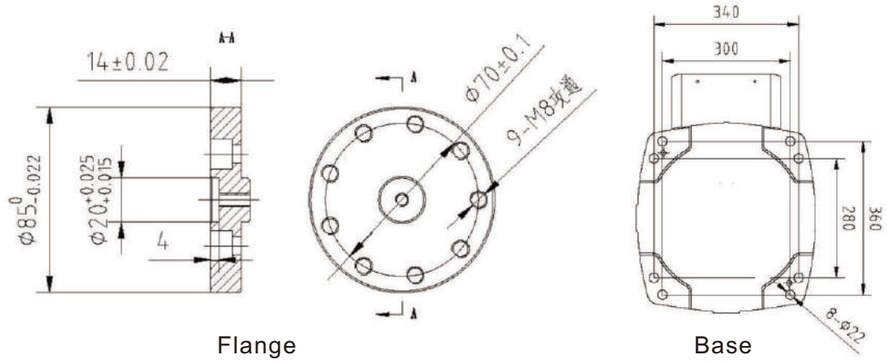
Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	• With no corrosive or combustible gas • With no water, oil or drug splashing • With no electromagnetic field nearby • With no radiations nearby

Working envelope (unit: mm)



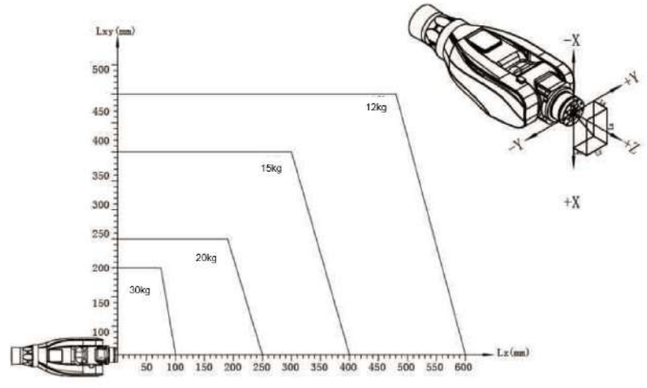


Flange and base dimensions (unit: mm)



Flange Base

Payload diagram



All data, drawings and specifications provided in this catalog are purely for information purposes and do not constitute a guarantee of these characteristics. The extent of goods delivered and services performed is determined by the subject matter of the specific contract. No liability accepted for errors or omissions.

yasaka

6-AXIS HANDLING ROBOT

YS30-1700

Enclosed design. Heavy duty.
Suitable for pick-n-place, machine tending, palletizing, polishing and painting.

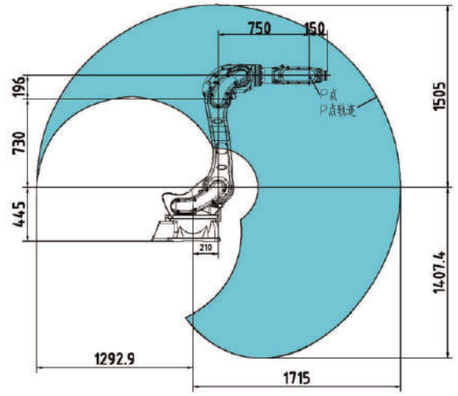
Robot specifications

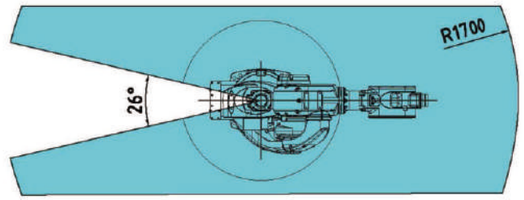
Basic data	
Model No.	YS30-1700
Number of axes	6
Maximum payload	30 kg
Maximum stroke	1700mm
IP class	J1, J2 - IP56; J3, J4, J5, J6- IP67
Mounting position	Floor type, wall type, ceiling type
Approx. weight	283 kg (without cabinet)
Repeatability	±0.08 mm
Internal air duct	Φ10
Motion range	
J1 axis S	±165°
J2 axis L	+80°~-150°
J3 axis U	+130°~-60°
J4 axis R	±190°
J5 axis B	+20°~-200°
J6 axis T	±360°
Speed with rated payload	
J1 axis S	130°/s
J2 axis L	130 °/s
J3 axis U	144°/s
J4 axis R	224 °/s
J5 axis B	333 °/s
J6 axis T	374 °/s

Electrical cabinet specifications	
Dimensions	650*495*580mm
Approx. weight	80KG
Cooling method	Natural cooling
Input power	380VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	• 16 digital inputs • 16 digital outputs • 2 analog outputs (optional)
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

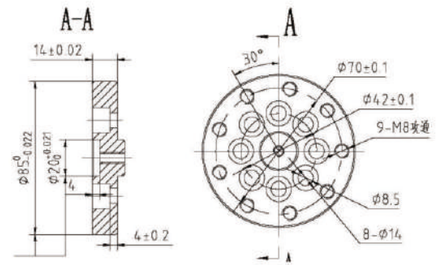
Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	• With no corrosive or combustible gas • With no water, oil or drug splashing • With no electromagnetic field nearby • With no radiations nearby

Working envelope (unit: mm)

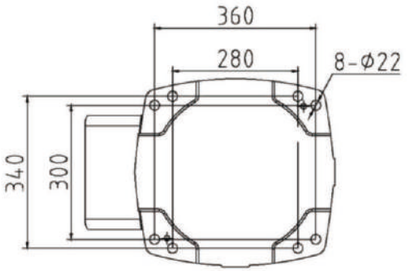




Flange and base dimensions (unit: mm)

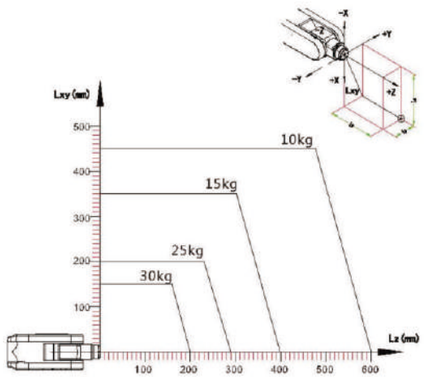


Flange



Base

Payload diagram



All data, drawings and specifications provided in this catalog are purely for information purposes and do not constitute a guarantee of these characteristics. The extent of goods delivered and services performed is determined by the subject matter of the specific contract. No liability accepted for errors or omissions.

yasaka

6-AXIS HANDLING ROBOT

YS60-2680

Enclosed design. Heavy duty.
Suitable for pick-n-place, machine tending, palletizing, polishing and painting.

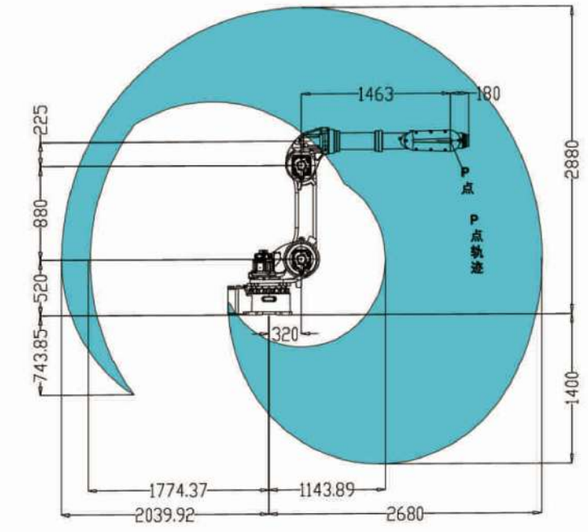
Robot specifications

Basic data	
Model No.	YS60-2680
Number of axes	6
Maximum payload	60 kg
Maximum stroke	2680mm
IP class	J1, J2 - IP56; J3, J4, J5, J6- IP67
Mounting position	Floor type, wall type
Approx. weight	655 kg (without cabinet)
Repeatability	±0.08 mm
Internal air duct	Φ8/10
Motion range	
J1 axis S	±165°
J2 axis L	+90°~-120°
J3 axis U	+140°~-70°
J4 axis R	±190°
J5 axis B	+30°~-210°
J6 axis T	±360°
Speed with rated payload	
J1 axis S	214°/s
J2 axis L	149 °/s
J3 axis U	175°/s
J4 axis R	378 °/s
J5 axis B	285 °/s
J6 axis T	370°/s

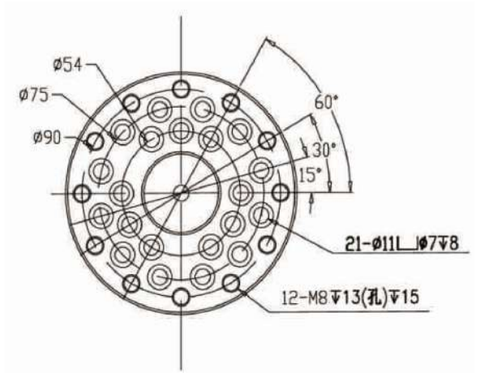
Electrical cabinet specifications	
Dimensions	850*550*920mm
Approx. weight	170KG
Cooling method	Natural cooling
Input power	380VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	• 16 digital inputs • 16 digital outputs • 2 analog outputs (optional)
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	• With no corrosive or combustible gas • With no water, oil or drug splashing • With no electromagnetic field nearby • With no radiations nearby

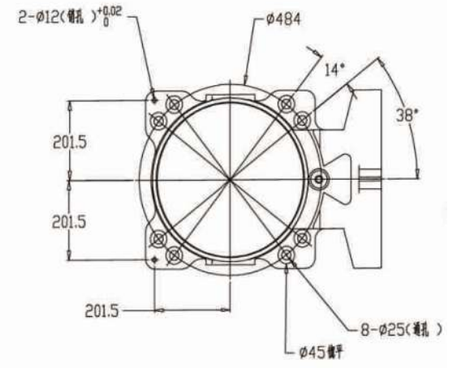
Working envelope (unit: mm)



Flange and base dimensions (unit: mm)

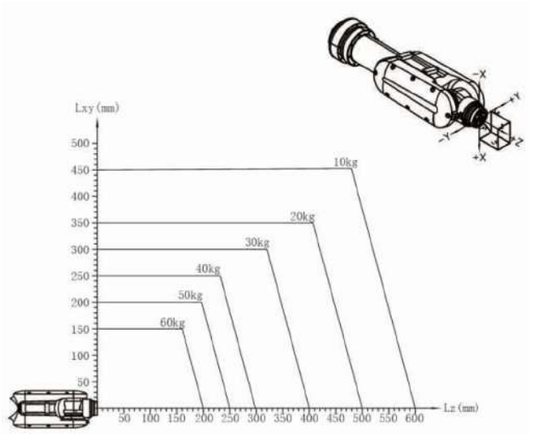


Flange



Base

Payload diagram



All data, drawings and specifications provided in this catalog are purely for information purposes and do not constitute a guarantee of these characteristics. The extent of goods delivered and services performed is determined by the subject matter of the specific contract. No liability accepted for errors or omissions.

yasaka

6-AXIS HANDLING ROBOT

YS80-2250

Enclosed design. Heavy duty.
Suitable for pick-n-place, machine tending, palletizing, polishing and painting.

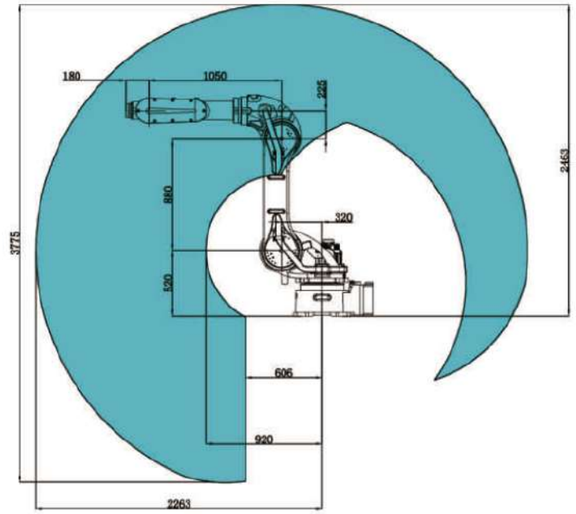
Robot specifications

Basic data	
Model No.	YS80-2250
Number of axes	6
Maximum payload	80 kg
Maximum stroke	2250mm
IP class	J1, J2 - IP56; J3, J4, J5, J6- IP67
Mounting position	Floor type, wall type
Approx. weight	678 kg (without cabinet)
Repeatability	±0.08 mm
Internal air duct	Φ8/10
Motion range	
J1 axis S	±165°
J2 axis L	+90°~-120°
J3 axis U	+140°~-70°
J4 axis R	±190°
J5 axis B	+30°~-210°
J6 axis T	±360°
Speed with rated payload	
J1 axis S	216°/s
J2 axis L	150 °/s
J3 axis U	175°/s
J4 axis R	378 °/s
J5 axis B	286 °/s
J6 axis T	370°/s

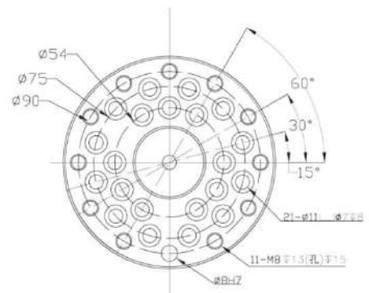
Electrical cabinet specifications	
Dimensions	850*550*920mm
Approx. weight	170KG
Cooling method	Natural cooling
Input power	380VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	• 16 digital inputs • 16 digital outputs • 2 analog outputs (optional)
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	• With no corrosive or combustible gas • With no water, oil or drug splashing • With no electromagnetic field nearby • With no radiations nearby

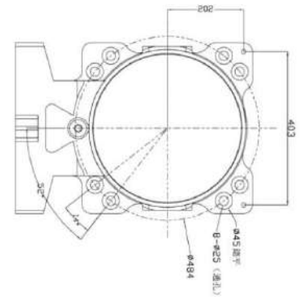
Working envelope (unit: mm)



Flange and base dimensions (unit: mm)

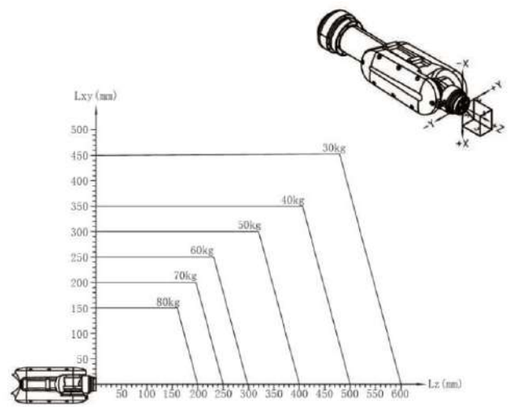


Flange



Base

Payload diagram



All data, drawings and specifications provided in this catalog are purely for information purposes and do not constitute a guarantee of these characteristics. The extent of goods delivered and services performed is determined by the subject matter of the specific contract. No liability accepted for errors or omissions.

6-AXIS HANDLING ROBOT

YSRT50-270

Special long-stroke design.
Suitable for pick-n-place and palletizing.

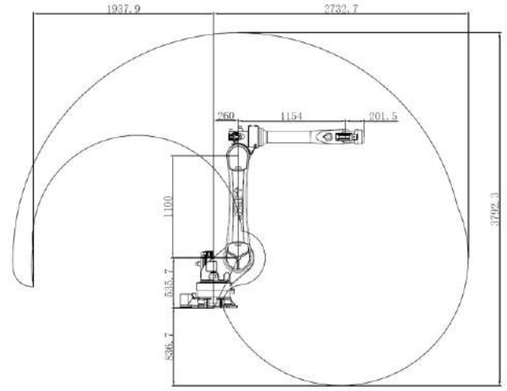
Robot specifications

Basic data	
Model No.	YSRT50-270
Number of axes	6
Maximum payload	50 kg
Maximum stroke	1700mm
IP class	J1, J2, J3, J4, J5, J6 - IP56
Mounting position	Floor type
Approx. weight	600 kg (without cabinet)
Repeatability	±0.15 mm
Internal air duct	Φ10
Motion range	
J1 axis S	±165°
J2 axis L	+80°~-90°
J3 axis U	+105°~-75°
J4 axis R	±180°
J5 axis B	+98°~-90°
J6 axis T	±360°
Speed with rated payload	
J1 axis S	127°/s
J2 axis L	70 °/s
J3 axis U	74.5°/s
J4 axis R	137°/s
J5 axis B	99 °/s
J6 axis T	222 °/s

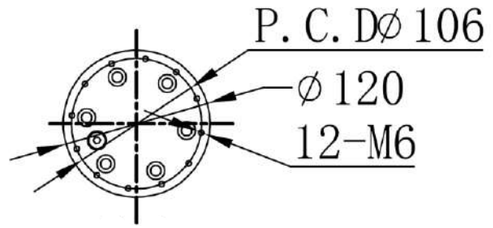
Electrical cabinet specifications	
Dimensions	560*500*730mm
Approx. weight	80KG
Cooling method	Natural cooling
Input power	380VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	• 16 digital inputs • 16 digital outputs • 2 analog outputs (optional)
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	• With no corrosive or combustible gas • With no water, oil or drug splashing • With no electromagnetic field nearby • With no radiations nearby

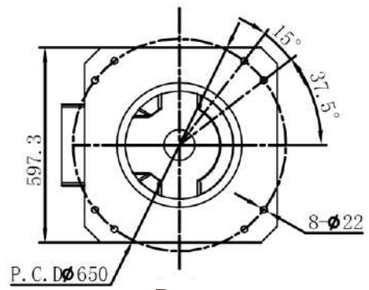
Working envelope (unit: mm)



Flange and base dimensions (unit: mm)



Flange



Base

All data, drawings and specifications provided in this catalog are purely for information purposes and do not constitute a guarantee of these characteristics. The extent of goods delivered and services performed is determined by the subject matter of the specific contract. No liability accepted for errors or omissions.

yasaka

6-AXIS HANDLING ROBOT

YSRT100-270

Special long-stroke design.
Suitable for pick-n-place and palletizing.

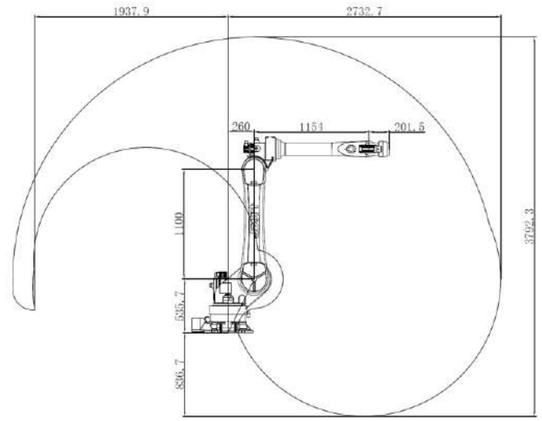
Robot specifications

Basic data	
Model No.	YSRT100-270
Number of axes	6
Maximum payload	50 kg
Maximum stroke	1700mm
IP class	J1, J2, J3, J4, J5, J6 - IP56
Mounting position	Floor type
Approx. weight	615 kg (without cabinet)
Repeatability	±0.15 mm
Internal air duct	Φ10
Motion range	
J1 axis S	±165°
J2 axis L	+80°~-90°
J3 axis U	+105°~-75°
J4 axis R	±180°
J5 axis B	+98°~-90°
J6 axis T	±360°
Speed with rated payload	
J1 axis S	127°/s
J2 axis L	70 °/s
J3 axis U	74.5°/s
J4 axis R	137°/s
J5 axis B	99 °/s
J6 axis T	222 °/s

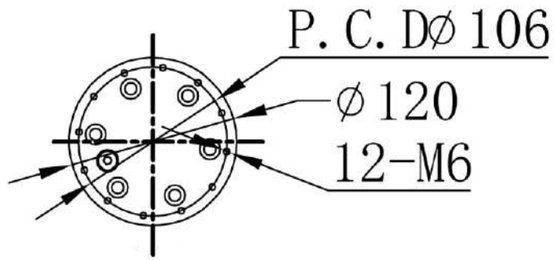
Electrical cabinet specifications	
Dimensions	560*500*730mm
Approx. weight	80KG
Cooling method	Natural cooling
Input power	380VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	• 16 digital inputs • 16 digital outputs • 2 analog outputs (optional)
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	• With no corrosive or combustible gas • With no water, oil or drug splashing • With no electromagnetic field nearby • With no radiations nearby

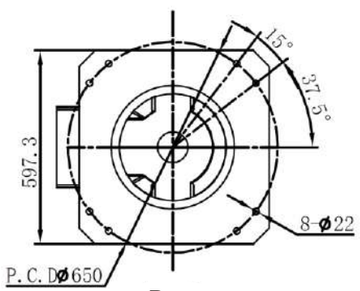
Working envelope (unit: mm)



Flange and base dimensions (unit: mm)



Flange



Base

All data, drawings and specifications provided in this catalog are purely for information purposes and do not constitute a guarantee of these characteristics. The extent of goods delivered and services performed is determined by the subject matter of the specific contract. No liability accepted for errors or omissions.

yasaka

6-AXIS HANDLING ROBOT

YS-F120R2230

Heavy duty, fast and accurate.
Suitable for pick-n-place, machine tending, palletizing, polishing, glue dispensing and painting.

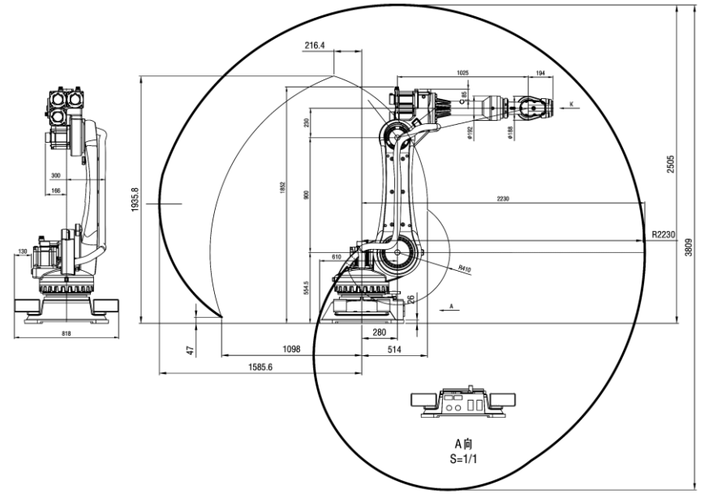
Robot specifications

Basic data	
Model No.	YS-F120R2230
Number of axes	6
Maximum payload	120 kg
Maximum stroke	2230mm
IP class	J1, J2 - IP56; J3, J4, J5, J6- IP67
Mounting position	Floor type
Approx. weight	700 kg (without cabinet)
Repeatability	±0.06 mm
Internal air duct	Φ10
Motion range	
J1 axis S	±185°
J2 axis L	+154°~-65°
J3 axis U	+170°~-80°
J4 axis R	±360°
J5 axis B	±120°
J6 axis T	±360°
Speed with rated payload	
J1 axis S	130°/s
J2 axis L	110°/s
J3 axis U	120°/s
J4 axis R	170°/s
J5 axis B	170°/s
J6 axis T	250°/s

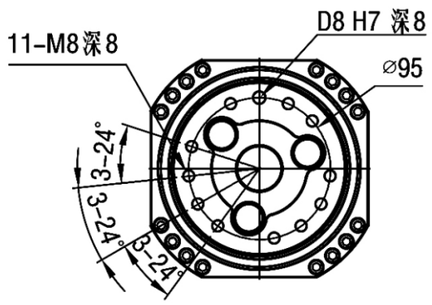
Electrical cabinet specifications	
Dimensions	560*500*800mm
Approx. weight	80KG
Cooling method	Natural cooling
Input power	380VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	• 16 digital inputs • 16 digital outputs • 2 analog outputs (optional)
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	• With no corrosive or combustible gas • With no water, oil or drug splashing • With no electromagnetic field nearby • With no radiations nearby

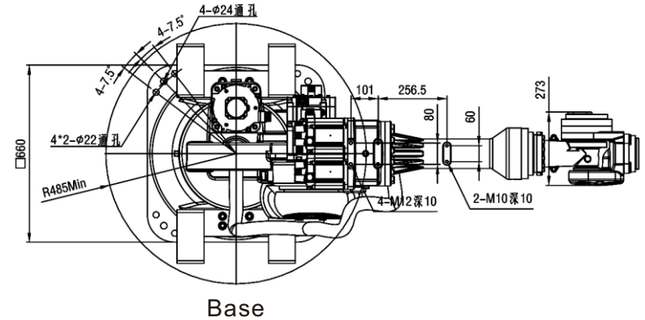
Working envelope (unit: mm)



Flange and base dimensions (unit: mm)



Flange



Base

All data, drawings and specifications provided in this catalog are purely for information purposes and do not constitute a guarantee of these characteristics. The extent of goods delivered and services performed is determined by the subject matter of the specific contract. No liability accepted for errors or omissions.

yasaka

6-AXIS HANDLING ROBOT

YS-F210R2700

Top class heavy duty. Powerful, fast and accurate.
Suitable for pick-n-place, machine tending, palletizing, polishing, glue dispensing and painting.

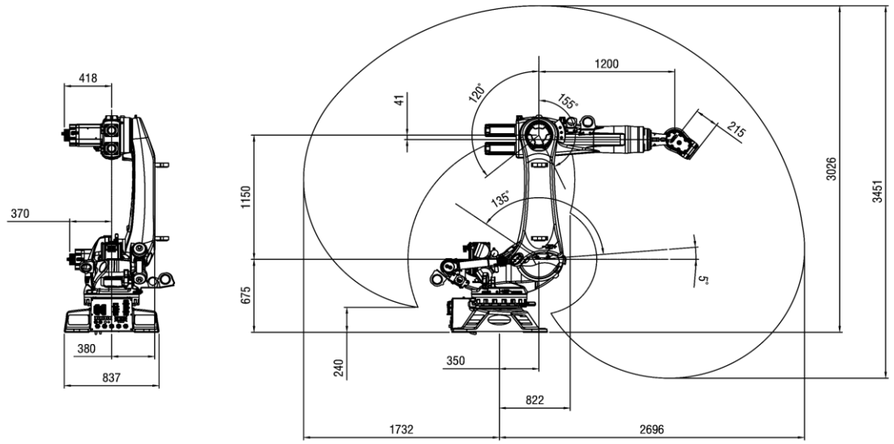
Robot specifications

Basic data	
Model No.	YS-F210R2700
Number of axes	6
Maximum payload	210 kg
Maximum stroke	2700mm
IP class	J1, J2 - IP56; J3, J4, J5, J6- IP67
Mounting position	Floor type
Approx. weight	1130 kg (without cabinet)
Repeatability	±0.06 mm
Internal air duct	Φ10
Motion range	
J1 axis S	±185°
J2 axis L	+85°~-50°
J3 axis U	+210°~-65°
J4 axis R	±350°
J5 axis B	±125°
J6 axis T	±350°
Speed with rated payload	
J1 axis S	123°/s
J2 axis L	115°/s
J3 axis U	112°/s
J4 axis R	179°/s
J5 axis B	172°/s
J6 axis T	219°/s

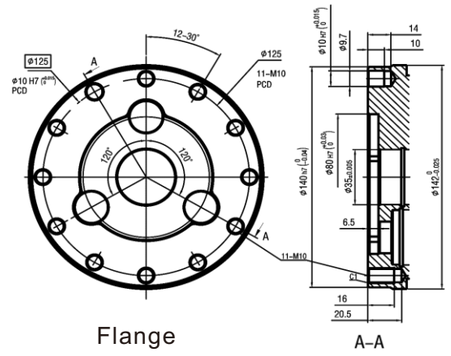
Electrical cabinet specifications	
Dimensions	560*500*800mm
Approx. weight	100KG
Cooling method	Natural cooling
Input power	380VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	• 16 digital inputs • 16 digital outputs • 2 analog outputs (optional)
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	• With no corrosive or combustible gas • With no water, oil or drug splashing • With no electromagnetic field nearby • With no radiations nearby

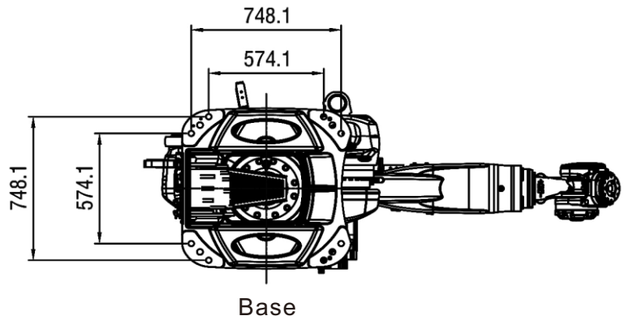
Working envelope (unit: mm)



Flange and base dimensions (unit: mm)



Flange



Base

All data, drawings and specifications provided in this catalog are purely for information purposes and do not constitute a guarantee of these characteristics. The extent of goods delivered and services performed is determined by the subject matter of the specific contract. No liability accepted for errors or omissions.

yasaka

4-AXIS HANDLING ROBOT

YS10B-1400

Fast, accurate and reliable.
Suitable for pick-n-place and palletizing.

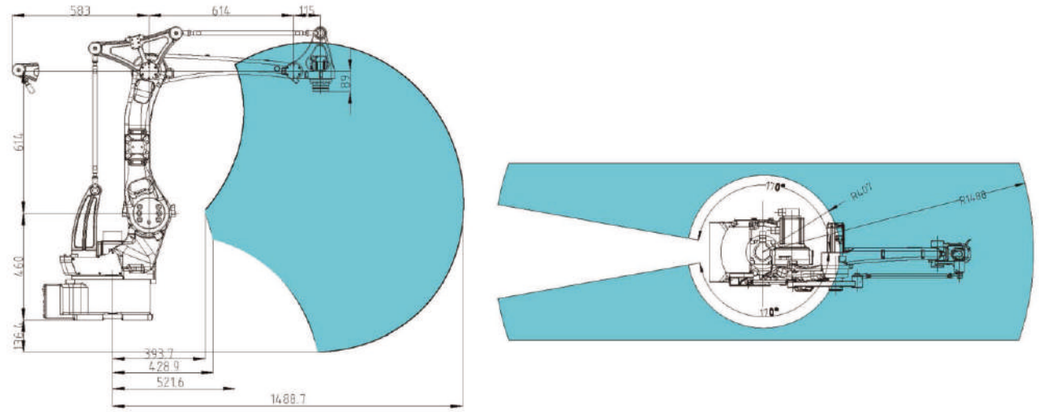
Robot specifications

Basic data	
Model No.	YS10B-1400
Number of axes	4
Maximum payload	12 kg
Maximum stroke	1400mm
IP class	J1, J2 - IP56; J3, J4- IP67
Mounting position	Floor type
Approx. weight	165 kg (without cabinet)
Repeatability	±0.08 mm
Internal air duct	Φ10
Motion range	
J1 axis S	±170°
J2 axis L	+80°~-32°
J3 axis U	+20°~-90°
J4 axis R	±360°
Speed with rated payload	
J1 axis S	223°/s
J2 axis L	173 °/s
J3 axis U	300°/s
J4 axis R	481 °/s

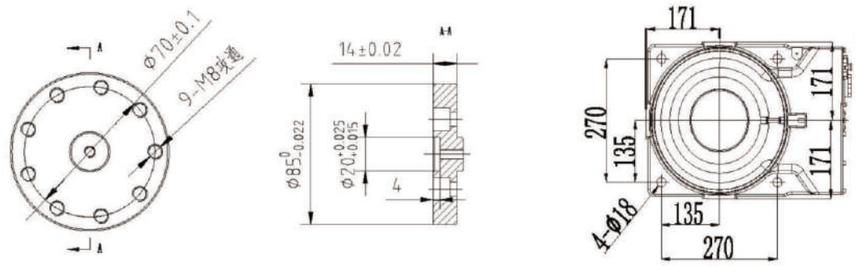
Electrical cabinet specifications	
Dimensions	490*400*365mm
Approx. weight	40KG
Cooling method	Natural cooling
Input power	220VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	• 16 digital inputs • 16 digital outputs
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	• With no corrosive or combustible gas • With no water, oil or drug splashing • With no electromagnetic field nearby • With no radiations nearby

Working envelope (unit: mm)

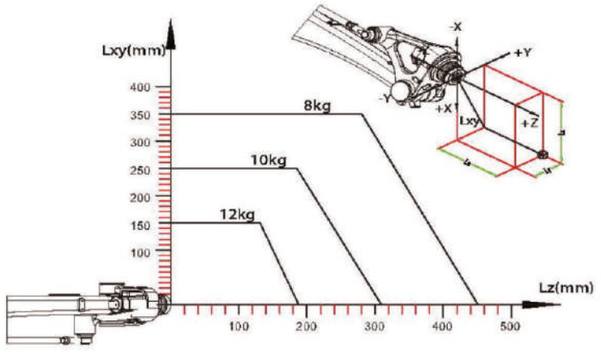


Flange and base dimensions (unit: mm)



Flange Base

Payload diagram



All data, drawings and specifications provided in this catalog are purely for information purposes and do not constitute a guarantee of these characteristics. The extent of goods delivered and services performed is determined by the subject matter of the specific contract. No liability accepted for errors or omissions.

4-AXIS HANDLING ROBOT

YS15B-1400

Fast, accurate and reliable.
Suitable for pick-n-place and palletizing.

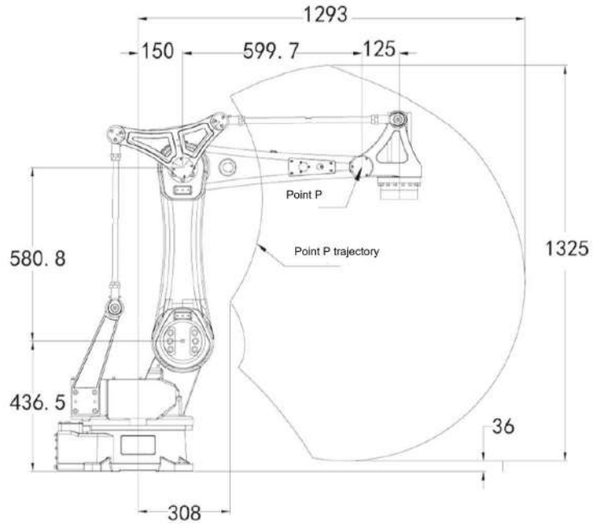
Robot specifications

Basic data	
Model No.	YS15B-1800
Number of axes	4
Maximum payload	15 kg
Maximum stroke	1418mm
IP class	J1, J2 - IP56; J3, J4- IP67
Mounting position	Floor type
Approx. weight	170 kg (without cabinet)
Repeatability	±0.08 mm
Internal air duct	Φ10
Motion range	
J1 axis S	±140°
J2 axis L	+35°~-70°
J3 axis U	+75°~-70°
J4 axis R	±360°
Speed with rated payload	
J1 axis S	260°/s
J2 axis L	200°/s
J3 axis U	296°/s
J4 axis R	540 °/s

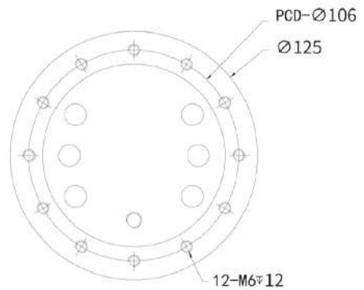
Electrical cabinet specifications	
Dimensions	450*510*730mm
Approx. weight	40KG
Cooling method	Natural cooling
Input power	220VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	• 16 digital inputs • 16 digital outputs
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	• With no corrosive or combustible gas • With no water, oil or drug splashing • With no electromagnetic field nearby • With no radiations nearby

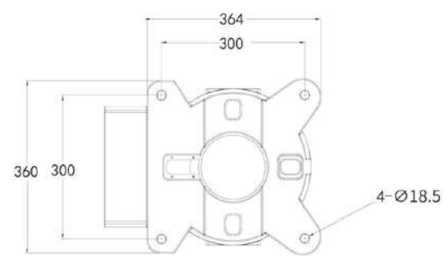
Working envelope (unit: mm)



Flange and base dimensions (unit: mm)

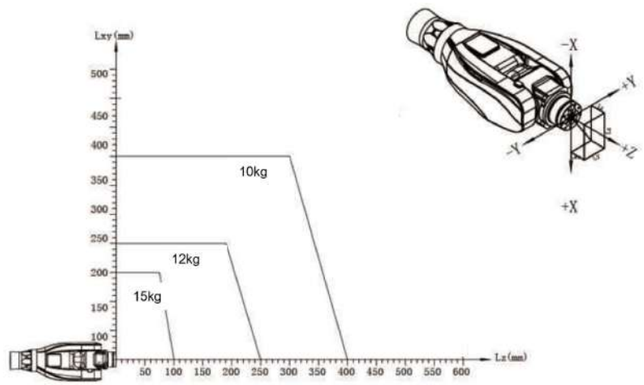


Flange



Base

Payload diagram



All data, drawings and specifications provided in this catalog are purely for information purposes and do not constitute a guarantee of these characteristics. The extent of goods delivered and services performed is determined by the subject matter of the specific contract. No liability accepted for errors or omissions.

4-AXIS HANDLING ROBOT

YS25B-1800

Fast, accurate and reliable.
Suitable for pick-n-place and palletizing.

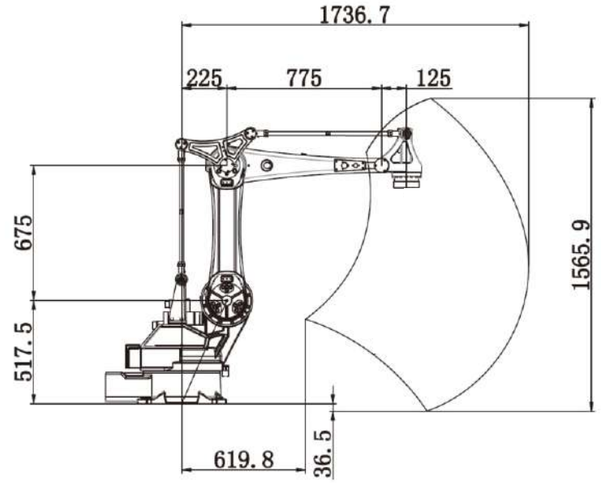
Robot specifications

Basic data	
Model No.	YS25B-1800
Number of axes	4
Maximum payload	25 kg
Maximum stroke	1758mm
IP class	J1, J2 - IP56; J3, J4- IP67
Mounting position	Floor type
Approx. weight	295 kg (without cabinet)
Repeatability	±0.08 mm
Internal air duct	Φ10
Motion range	
J1 axis S	±130°
J2 axis L	+35°~-70°
J3 axis U	+75°~-70°
J4 axis R	±360°
Speed with rated payload	
J1 axis S	136°/s
J2 axis L	135 °/s
J3 axis U	118°/s
J4 axis R	222 °/s

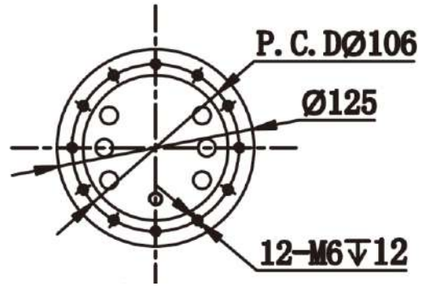
Electrical cabinet specifications	
Dimensions	560*500*730mm
Approx. weight	50KG
Cooling method	Natural cooling
Input power	380VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	• 16 digital inputs • 16 digital outputs
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	• With no corrosive or combustible gas • With no water, oil or drug splashing • With no electromagnetic field nearby • With no radiations nearby

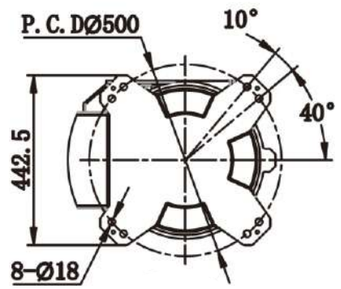
Working envelope (unit: mm)



Flange and base dimensions (unit: mm)



Flange



Base

All data, drawings and specifications provided in this catalog are purely for information purposes and do not constitute a guarantee of these characteristics. The extent of goods delivered and services performed is determined by the subject matter of the specific contract. No liability accepted for errors or omissions.

yasaka

4-AXIS HANDLING ROBOT

YS50B-2300

Fast, accurate and reliable.
Suitable for pick-n-place and palletizing.

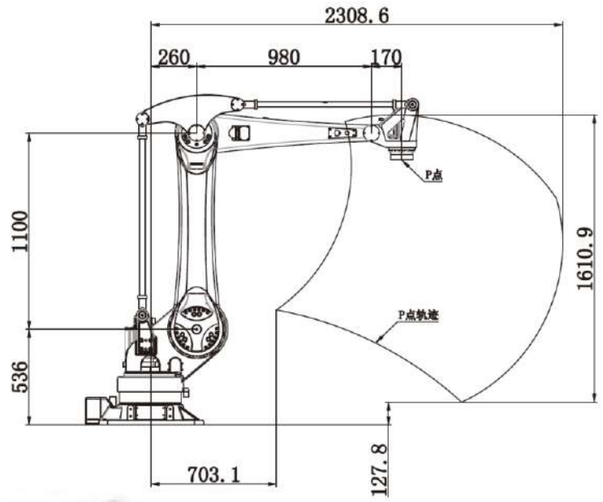
Robot specifications

Basic data	
Model No.	YS50B-2300
Number of axes	4
Maximum payload	50 kg
Maximum stroke	2363mm
IP class	J1, J2 - IP56; J3, J4- IP67
Mounting position	Floor type
Approx. weight	615 kg (without cabinet)
Repeatability	±0.08 mm
Internal air duct	Φ10
Motion range	
J1 axis S	±150°
J2 axis L	+35°~-55°
J3 axis U	+60°~-50°
J4 axis R	±360°
Speed with rated payload	
J1 axis S	127°/s
J2 axis L	70 °/s
J3 axis U	74.5°/s
J4 axis R	222 °/s

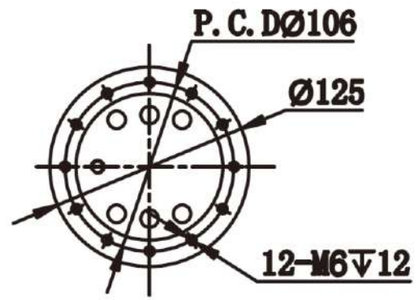
Electrical cabinet specifications	
Dimensions	560*500*730mm
Approx. weight	55KG
Cooling method	Natural cooling
Input power	380VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	• 16 digital inputs • 16 digital outputs
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	• With no corrosive or combustible gas • With no water, oil or drug splashing • With no electromagnetic field nearby • With no radiations nearby

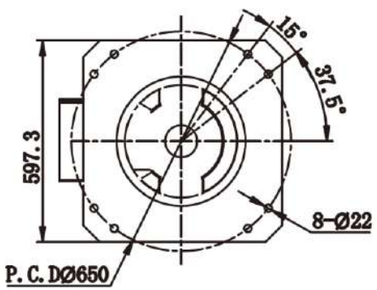
Working envelope (unit: mm)



Flange and base dimensions (unit: mm)



Flange



Base

All data, drawings and specifications provided in this catalog are purely for information purposes and do not constitute a guarantee of these characteristics. The extent of goods delivered and services performed is determined by the subject matter of the specific contract. No liability accepted for errors or omissions.

4-AXIS HANDLING ROBOT

YSRT100B-230

Fast, accurate and reliable.
Suitable for pick-n-place and palletizing.

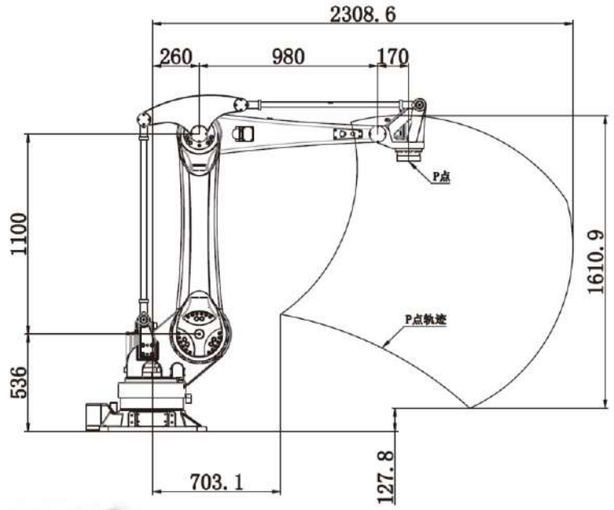
Robot specifications

Basic data	
Model No.	YSRT100B-230
Number of axes	4
Maximum payload	100 kg
Maximum stroke	2363mm
IP class	J1, J2 - IP56; J3, J4- IP67
Mounting position	Floor type
Approx. weight	630 kg (without cabinet)
Repeatability	±0.08 mm
Internal air duct	Φ10
Motion range	
J1 axis S	±150°
J2 axis L	+35°~-55°
J3 axis U	+60°~-50°
J4 axis R	±360°
Speed with rated payload	
J1 axis S	127°/s
J2 axis L	70 °/s
J3 axis U	74.5°/s
J4 axis R	222 °/s

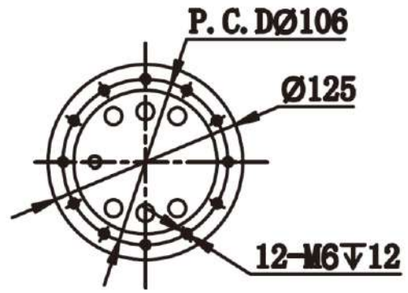
Electrical cabinet specifications	
Dimensions	560*500*730mm
Approx. weight	55KG
Cooling method	Natural cooling
Input power	380VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	• 16 digital inputs • 16 digital outputs
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	• With no corrosive or combustible gas • With no water, oil or drug splashing • With no electromagnetic field nearby • With no radiations nearby

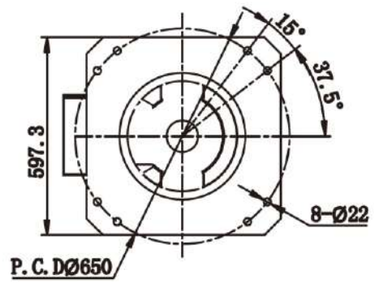
Working envelope (unit: mm)



Flange and base dimensions (unit: mm)



Flange



Base

All data, drawings and specifications provided in this catalog are purely for information purposes and do not constitute a guarantee of these characteristics. The extent of goods delivered and services performed is determined by the subject matter of the specific contract. No liability accepted for errors or omissions.

SCARA ROBOT

YS06-502S/602S/702S

Fast, accurate and reliable.
Suitable for pick-n-place of 3C industry.

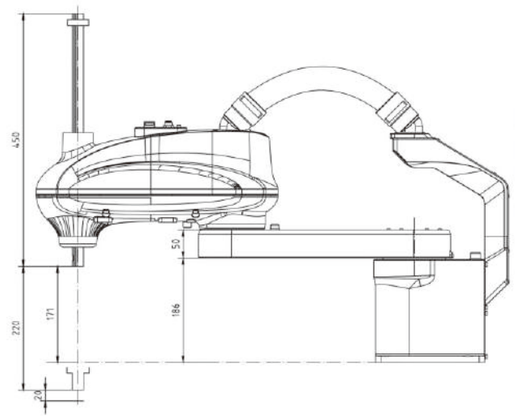
Robot specifications

Basic data	
Model No.	YS06-502S/602S/702S
Number of axes	4
Maximum payload	6 kg
Maximum stroke	500/600/700mm
IP class	J1, J2 - IP56; J3, J4- IP67
Mounting position	Floor type
Approx. weight	30 kg (without cabinet)
Repeatability	±0.02 mm
Internal air duct	Φ6
Motion range	
J1 axis S	±132°
J2 axis L	±150°
J3 axis U	220mm
J4 axis R	±360°
Speed with rated payload	
J1 axis S	540°/s
J2 axis L	600°/s
J3 axis U	750°/s
J4 axis R	1717 °/s

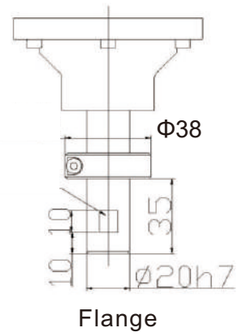
Electrical cabinet specifications	
Dimensions	490*400*365mm
Approx. weight	40KG
Cooling method	Natural cooling
Input power	220VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	• 16 digital inputs • 16 digital outputs • 2 analog outputs (optional)
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	• With no corrosive or combustible gas • With no water, oil or drug splashing • With no electromagnetic field nearby • With no radiations nearby

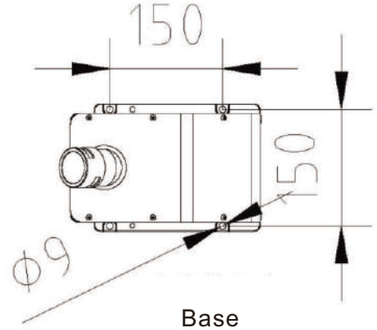
Working envelope (unit: mm)



Flange and base dimensions (unit: mm)

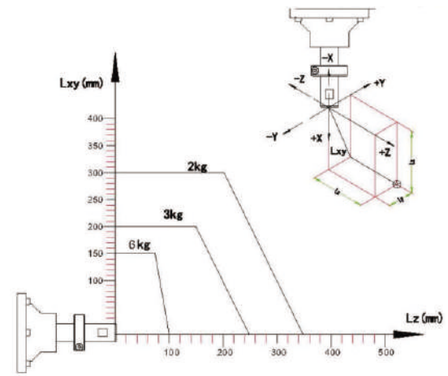


Flange



Base

Payload diagram



All data, drawings and specifications provided in this catalog are purely for information purposes and do not constitute a guarantee of these characteristics. The extent of goods delivered and services performed is determined by the subject matter of the specific contract. No liability accepted for errors or omissions.