



Higher Precision



Higher Protection Level(IP67)



Higher Speed



Better Price Performance



Moka Robot is a high-tech robot manufacturer providing high quality industrial robots and solutions to our customers. As one of the earliest companies who manufactures industrial robots, we offer professional, timely service and complete robot application solutions.

Our robot system is highly stable and mature. After years of development, our products are widely used in industrial automation applications such as welding, painting, handling, palletizing and polishing, both in China and the global market. Our industrial robots are developed by our company with independent intellectual property rights. The motion of each joint of the robot is realized by high performance servo motors and a high precision reducers.

The core advantages of our industrial robots include: cost-effective, compact structure, highly reliable, high speed, high precision, easy to operate and easy to maintain.

For details, please visit www.mokarobot.com.

Honorary qualifications



























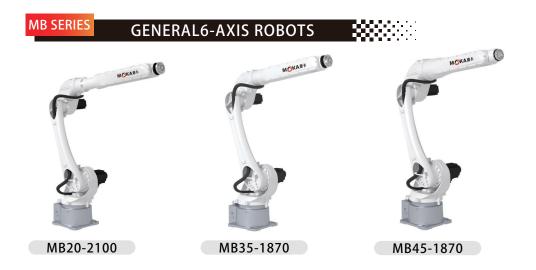














MB SERIES

HEAVY DU'TY 6-AXIS ROBOTS









MB210-2650

MB280-2650

MR SERIES

MR SERIESROBO'T'S





MR10C-1488



MR30C-1750



MR10W-1440-D



MR12-2010



MR12Z-1550



MR80E-2250



MR60E-2680

PAYLOAD: 1-4KG REPEATABILITY: ±0.01mm





Number of axis	4-axis		Maximum speed	Moving range
Motion radius	300mm	J1 axis S	J1+J2	±145°
Power capacity	1.5KVA	J2 axis L	5950mm/s	±120°
Max payload	Rated 1KG/Max 4KG	J3 axis U	1200mm/s	150mm
Repeatability	±0.01mm	J4 axis R	880°/s	±360°
Robot mass	15KG	Input/Output signals		Standard 16 in/16 out 24 VDC
Built-in air tube	Ф6	Mounting position		Floor/frame/ceiling



TECHNICAL SPECIFICATION

Installation Environment

Temperature 0-45° CT Humidity 20~80%RH(no condensing) No corrosive or combustible gas, no water, no splashing No excessive oil or dust

Vibrations Below 4.9M/S2 (0.5G) Altitude Below 1000M Away from electromagnetic source Away from magnetic field

Control cabinet specifications –

Overall dimension	420(width)*450(depth)*200(height)mm (with protrusions)
Approximate mass	18.5KG
Cooling method	Natural cooling
Power specifications	1PH 220V 50/60HZ
Grounding	Industrial grounding (dedicated grounding,resistance below100 $\!\Omega)$
Input/Output signal	General signal:16 input,16 output
Position control method	Serial communication EtherCAT.TCP/IP
Memory capacity	JOB: 200000 steps,10000 robot commands (total 200M)
LAN(Host link)	Ethercat(1pc) TCP/IP(1pc)
Control mode	Servo position control
Ambient temperature	In use:0~ + 45 °C,In storage: – 20 ~ + 60 °C
Driver unit	AC servo system (6-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

Serial port I/F

RS485(1pc) RS422(1pc) RS232(1pc) CAN(1pc) USB(1pc)

Altitude

Below 1000m. Derate 1% for every additional 100m if over 1000m. Maximum 2000m.

Others

No dust, cutting fluid (including coolant), organic solvent, oil smoke, water, salt, medicine, anti-rust oil, strong microwave, ultraviolet light, X-ray, radiation exposure

Teach pendent specifications

External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED,640*480 pixels
Protection class	IP54
Cable Length	Standard:5m Optional:15m

Manipulator

Selector, axis operation, value, mode selection with key (teach mode/auto mode/remote mode), emergency stop, enable, USB port etc

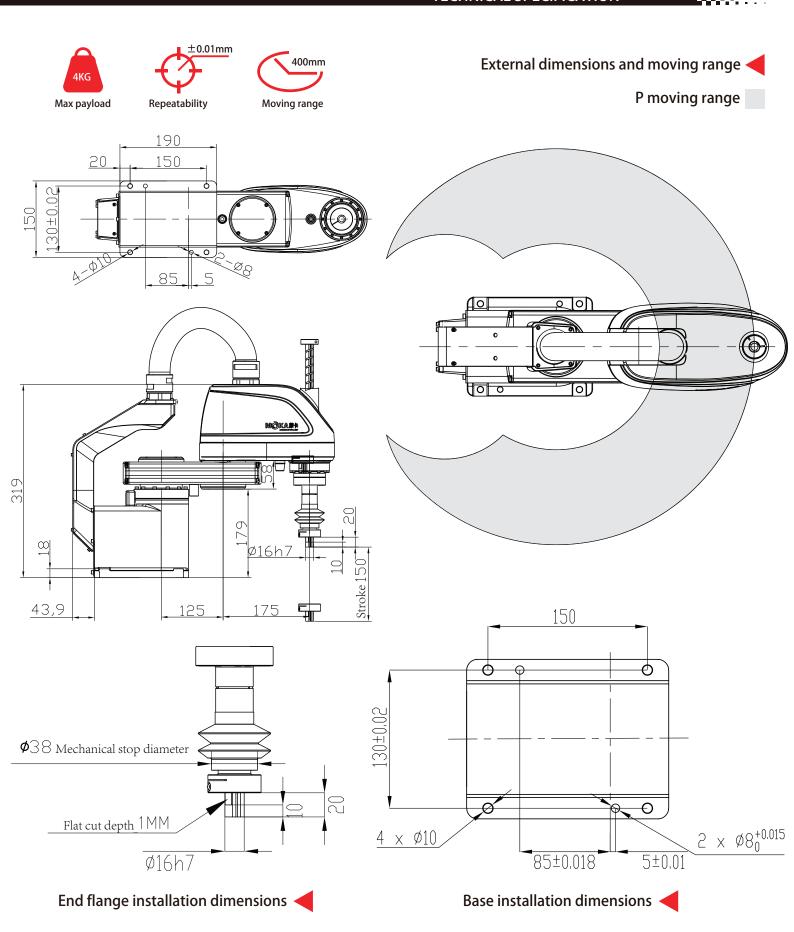


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PAYLOAD: 1-4KG

REPEATABILITY: ±0.01mm



Number of axis	4-axis		Maximum speed	Moving range
Motion radius	300mm	J1 axis S	J1+J2	±145°
Power capacity	1.5KVA	J2 axis L	7200mm/s	±145°
Max payload	Rated 1KG/Max 4KG	J3 axis U	1200mm/s	150mm
Repeatability	±0.01mm	J4 axis R	880°/s	±360°
Robot mass	15KG	Input/Output signals		Standard 16 in/16 out 24 VDC
Built-in air tube	Ф6	Mounting position		Floor



TECHNICAL SPECIFICATION

Installation	
Environment	

Temperature Humidity 20~80%RH(no condensing) Vibrations Below 4.9M/S2 (0.5G) Altitude

No corrosive or combustible gas, no water, no splashing

Away from electromagnetic source

No excessive oil or dust Away from magnetic field

Control cabinet specifications

•	
Overall dimension	420(width)*450(depth)*200(height)mm (with protrusions)
Approximate mass	18.5KG
Cooling method	Natural cooling
Power specifications	1PH 220V 50/60HZ
Grounding	Industrial grounding (dedicated grounding,resistance below100 $\!\Omega)$
Input/Output signal	General signal:16 input,16 output
Position control method	Serial communication EtherCAT.TCP/IP
Memory capacity	JOB: 200000 steps,10000 robot commands (total 200M)
LAN(Host link)	Ethercat(1pc) TCP/IP(1pc)
Control mode	Servo position control
Ambient temperature	In use:0~ + 45° C,In storage: – 20 ~ + 60° C
Driver unit	AC servo system (6-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

Below 1000M

Serial port I/F

RS485(1pc) RS422(1pc) RS232(1pc) CAN(1pc) USB(1pc)

Altitude

Below 1000m. Derate 1% for every additional 100m if over 1000m. Maximum 2000m.

Others

No dust, cutting fluid (including coolant), organic solvent, oil smoke, water, salt, medicine, anti-rust oil, strong microwave, ultraviolet light, X-ray, radiation exposure

Teach pendent specifications

External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED,640*480 pixels
Protection class	IP54
Cable Length	Standard:5m Optional:15m

Manipulator

Selector, axis operation, value, mode selection with key (teach mode/auto mode/remote mode), emergency stop, enable, USB port etc

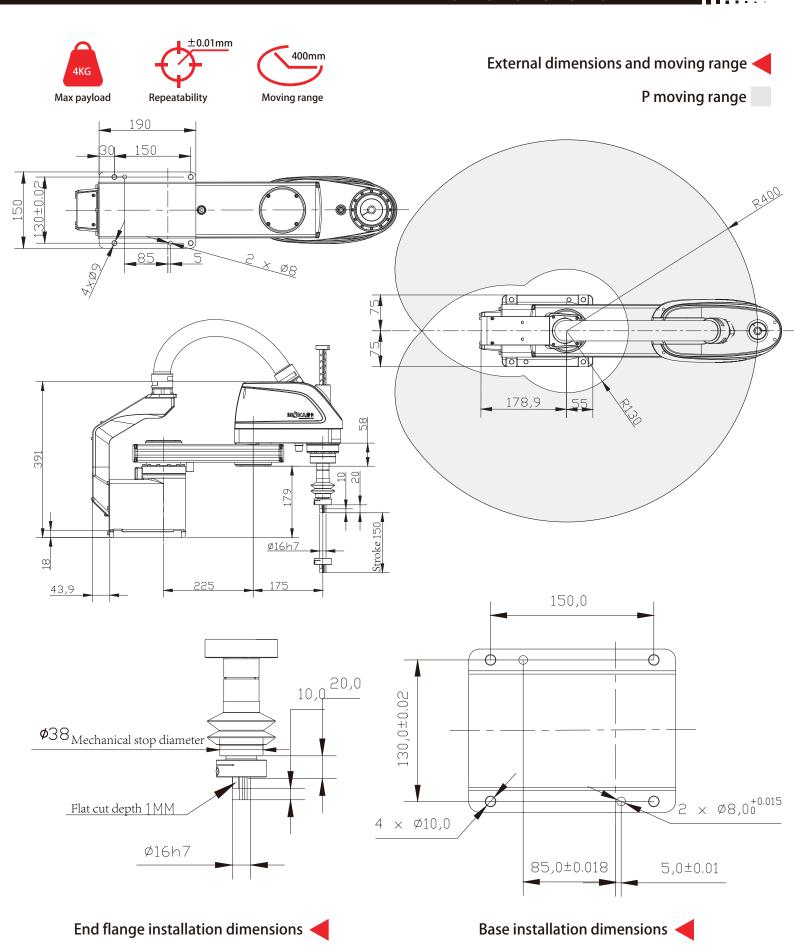


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PAYLOAD: 5-10KG REPEATABILITY: ±0.02mm



Number of axis	4-axis		Maximum speed	Moving range
Motion radius	500mm	J1 axis S	J1+J2	±135°
Power capacity	2.0KVA	J2 axis L	7380mm/s	±145°
Max payload	Rated 5KG/Max 10KG	J3 axis U	1100mm/s	200mm
Repeatability	±0.02mm	J4 axis R	880°/s	±360°
Robot mass	24KG	Input/Output signals		Standard 16 in/16 out 24 VDC
Built-in air tube	Ф6	Mounting position		Floor





Installation Environment

Temperature 0-45° CT Humidity 20~80%RH(no condensing) No corrosive or combustible gas, no water, no splashing No excessive oil or dust

Vibrations Below 4.9M/S2 (0.5G) Altitude Below 1000M Away from electromagnetic source Away from magnetic field

Control cabinet

specifications	
Overall dimension	420(width)*450(depth)*200(height)mm (with protrusions)
Approximate mass	18.5KG
Cooling method	Natural cooling
Power specifications	1PH 220V 50/60HZ
Grounding	Industrial grounding (dedicated grounding, resistance below 100 $\!\Omega)$
Input/Output signal	General signal:16 input,16 output
Position control method	Serial communication EtherCAT.TCP/IP
Memory capacity	JOB: 200000 steps,10000 robot commands (total 200M)
LAN(Host link)	Ethercat(1pc) TCP/IP(1pc)
Control mode	Servo position control
Ambient temperature	In use:0~ + 45°C,In storage: - 20~ + 60°C
Driver unit	AC servo system (6-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

Serial port I/F

RS485(1pc) RS422(1pc) RS232(1pc) CAN(1pc) USB(1pc)

Altitude

Below 1000m. Derate 1% for every additional 100m if over 1000m. Maximum 2000m.

Others

No dust, cutting fluid (including coolant), organic solvent, oil smoke, water, salt, medicine, anti-rust oil, strong microwave, ultraviolet light, X-ray, radiation exposure

Teach pendent specifications

External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED,640*480 pixels
Protection class	IP54
Cable Length	Standard:5m Optional:15m

Manipulator

Selector, axis operation, value, mode selection with key (teach mode/auto mode/remote mode), emergency stop, enable, USB port etc



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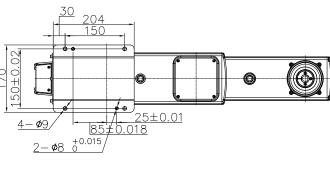


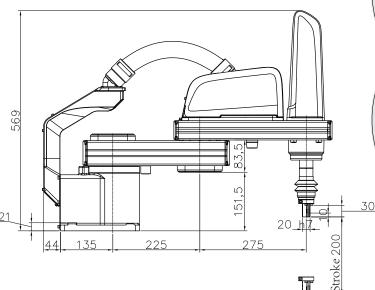


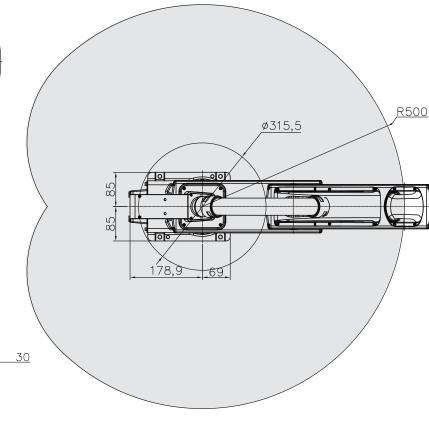


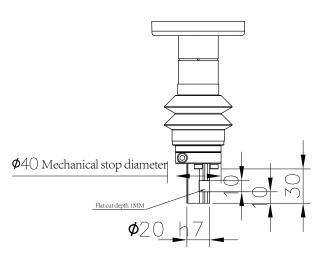
External dimensions and moving range

P moving range

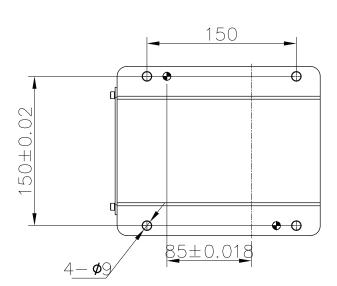








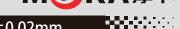








PAYLOAD: 5-10KG REPEATABILITY: ±0.02mm





Number of axis	4-axis		Maximum speed	Moving range
Motion radius	600mm	J1 axis S	J1+J2	±135°
Power capacity	2.0KVA	J2 axis L	8100mm/s	±150°
Max payload	Rated 5KG/Max 10KG	J3 axis U	1100mm/s	200mm
Repeatability	±0.02mm	J4 axis R	880°/s	±360°
Robot mass		Input/Output signals Sta		Standard 16 in/16 out 24 VDC
Built-in air tube	Ф6	Mounting position		Floor



Installation **Environment**

Temperature 0-45° CT **Vibrations** Below 4.9M/S2 (0.5G)

Humidity

20~80%RH(no condensing) Altitude Below 1000M No corrosive or combustible gas, no water, no splashing

No excessive oil or dust

Away from electromagnetic source

Away from magnetic field

Control cabinet specifications

Overall dimension	420(width)*450(depth)*200(height)mm (with protrusions)
Approximate mass	18.5KG
Cooling method	Natural cooling
Power specifications	1PH 220V 50/60HZ
Grounding	Industrial grounding (dedicated grounding,resistance below100 $\!\Omega)$
Input/Output signal	General signal:16 input,16 output
Position control method	Serial communication EtherCAT.TCP/IP
Memory capacity	JOB: 200000 steps,10000 robot commands (total 200M)
LAN(Host link)	Ethercat(1pc) TCP/IP(1pc)
Control mode	Servo position control
Ambient temperature	In use:0~ + 45°C,In storage: - 20~ + 60°C
Driver unit	AC servo system (6-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

Serial port I/F

RS485(1pc) RS422(1pc) RS232(1pc) CAN(1pc) USB(1pc)

Altitude

Below 1000m. Derate 1% for every additional 100m if over 1000m. Maximum 2000m.

Others

No dust, cutting fluid (including coolant), organic solvent, oil smoke, water, salt, medicine, anti-rust oil, strong microwave, ultraviolet light, X-ray, radiation exposure

Teach pendent specifications

(width)*220(depth)*120(height)mm (with protrusions)
0.6KG
Reinforced plastics
8 inch color LED,640*480 pixels
IP54
Standard:5m Optional:15m

Manipulator

Selector, axis operation, value, mode selection with key (teach mode/auto mode/remote mode), emergency stop, enable, USB port etc



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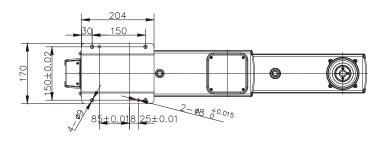


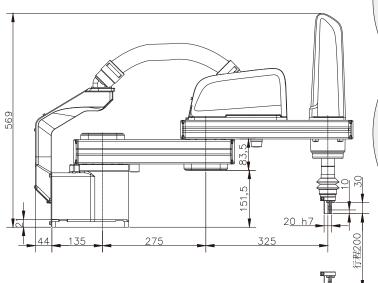


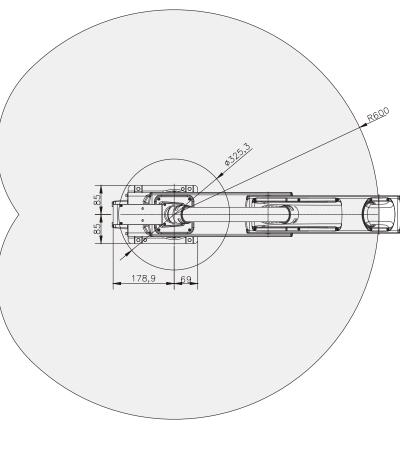
400mm Moving range

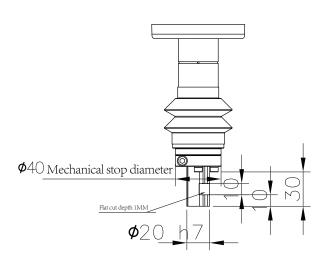
External dimensions and moving range

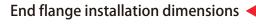
P moving range

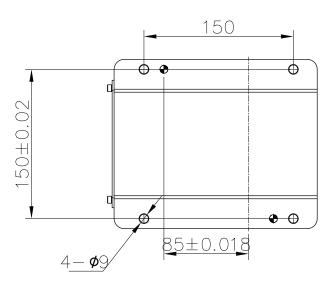


















Number of axis	4-axis
Motion radius	700mm
Power capacity	2.0KVA
Max payload	Rated 5KG/Max 10KG
Repeatability	±0.02mm
Robot mass	29KG
Built-in air tube	Ф6

	Maximum speed	Moving range
J1 axis S	J1+J2	±135°
J2 axis L	9580mm/s	±150°
J3 axis U	1100mm/s	200mm
J4 axis R	880°/s	±360°
Input/Output signals		Standard 16 in/16 out 24 VDC
Mounting po	osition	Floor



TECHNICAL SPECIFICATION

Installation			

Temperature 0-45° CT Humidity 20~80%RH(no condensing) No corrosive or combustible gas, no water, no splashing No excessive oil or dust

Vibrations Below 4.9M/S2 (0.5G) Altitude Below 1000M Away from electromagnetic source Away from magnetic field

Control cabinet

Environment

specifications		
	Overall dimension	420(width)*450(depth)*200(height)mm (with protrusions)
	Approximate mass	18.5KG
	Cooling method	Natural cooling
	Power specifications	1PH 220V 50/60HZ
	Grounding	Industrial grounding (dedicated grounding, resistance below 100 $\!\Omega)$
	Input/Output signal	General signal:16 input,16 output
	Position control method	Serial communication EtherCAT.TCP/IP
	Memory capacity	JOB: 200000 steps,10000 robot commands (total 200M)
	LAN(Host link)	Ethercat(1pc) TCP/IP(1pc)
	Control mode	Servo position control
	Ambient temperature	In use:0~ + 45°C,In storage: - 20~ + 60°C
	Driver unit	AC servo system (6-axis)
	Relative humidity	10%~90%(no condensing)
	Vibrate	Below 0.5G

Serial port I/F

RS485(1pc) RS422(1pc) RS232(1pc) CAN(1pc) USB(1pc)

Altitude

Below 1000m. Derate 1% for every additional 100m if over 1000m. Maximum 2000m.

Others

No dust, cutting fluid (including coolant), organic solvent, oil smoke, water, salt, medicine, anti-rust oil, strong microwave, ultraviolet light, X-ray, radiation exposure

Teach pendent specifications

External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED,640*480 pixels
Protection class	IP54
Cable Length	Standard:5m Optional:15m

Manipulator

Selector, axis operation, value, mode selection with key (teach mode/auto mode/remote mode), emergency stop, enable, USB port etc



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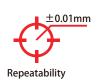
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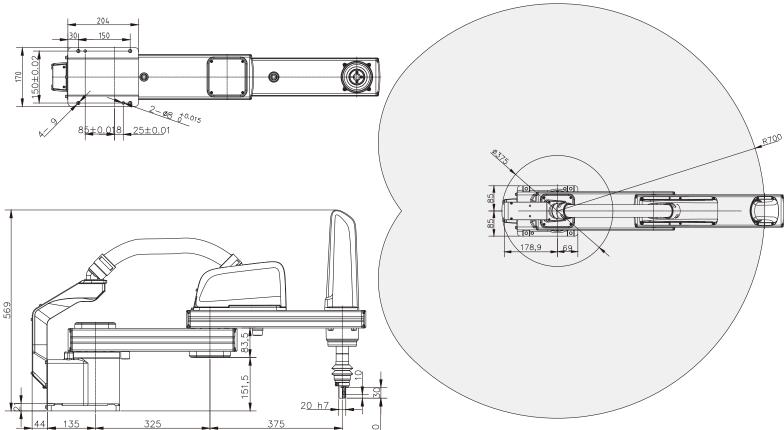


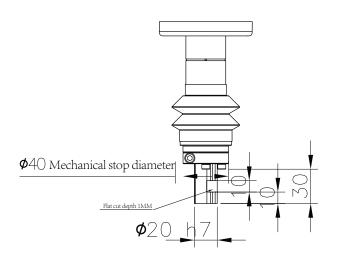




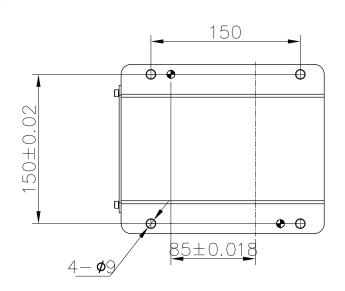
External dimensions and moving range

P moving range















Number of axis	4-axis	Maximum speed		Moving range
Motion radius	800mm	J1 axis S	J1+J2	±135°
Power capacity	2.0KVA	J2 axis L	9210mm/s	±150°
Max payload	Rated 10KG/Max 25KG	J3 axis U	2020mm/s	420mm
Repeatability	±0.025mm	J4 axis R 720°/s		±360°
Robot mass	63KG	Input/Output signals		Standard 16 in/16 out 24 VDC
Built-in air tube	Ф8	Mounting position		Floor



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Installation **Environment**

Temperature $0\text{-}45^{\circ}$ CT Humidity 20~80%RH(no condensing) No corrosive or combustible gas, no water, no splashing No excessive oil or dust Vibrations Altitude Below 4.9M/S2 (0.5G) Below 1000M Away from electromagnetic source

Away from magnetic field

Control cabinet

specifications		
	Overall dimension	420(width)*450(depth)*200(height)mm (with protrusions)
	Approximate mass	18.5KG
	Cooling method	Natural cooling
	Power specifications	1PH 220V 50/60HZ
	Grounding	Industrial grounding (dedicated grounding, resistance below 100 $\!\Omega)$
	Input/Output signal	General signal:16 input,16 output
	Position control method	Serial communication EtherCAT.TCP/IP
	Memory capacity	JOB: 200000 steps,10000 robot commands (total 200M)
	LAN(Host link)	Ethercat(1pc) TCP/IP(1pc)
	Control mode	Servo position control
	Ambient temperature	In use:0~ + 45°C,In storage: - 20~ + 60°C
	Driver unit	AC servo system (6-axis)
	Relative humidity	10%~90%(no condensing)
	Vibrate	Below 0.5G

Serial port I/F

RS485(1pc) RS422(1pc) RS232(1pc) CAN(1pc) USB(1pc)

Altitude

Below 1000m. Derate 1% for every additional 100m if over 1000m. Maximum 2000m.

Others

No dust, cutting fluid (including coolant), organic solvent, oil smoke, water, salt, medicine, anti-rust oil, strong microwave, ultraviolet light, X-ray, radiation exposure

Teach pendentspecifications

External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED,640*480 pixels
Protection class	IP54
Cable Length	Standard:5m Optional:15m

Manipulator

Selector, axis operation, value, mode selection with key (teach mode/auto mode/remote mode), emergency stop, enable, USB port etc

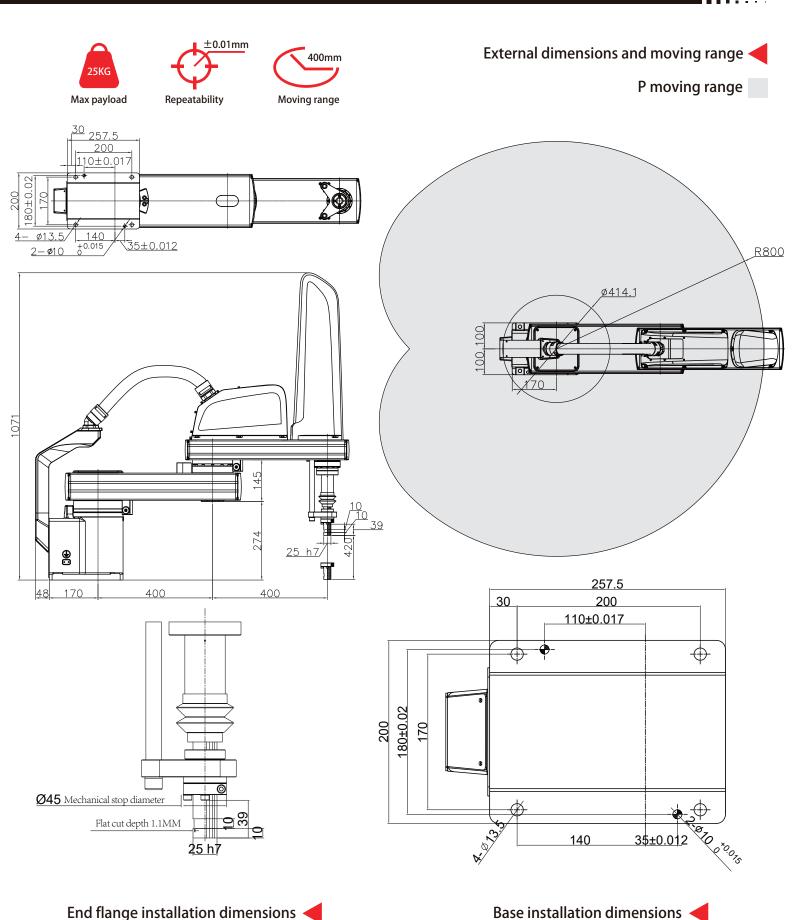


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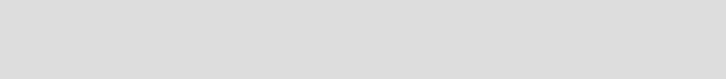
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PAYLOAD: 10-25KG REPEATABILITY: ±0.025mm





Number of axis 4-axis	
Motion radius 900mm	J1 axis S
Power capacity 3.0KVA	J2 axis L
Max payload Rated 10KG/Max 2	J3 axis U
Repeatability ±0.025mm	J4 axis F
Robot mass 64.5KG	Input/O
Built-in air tube Φ8	Mountin

	Maximum speed	Moving range
J1 axis S	J1+J2	±135°
J2 axis L	10360mm/s	±150°
J3 axis U	3 axis U 2020mm/s 420	
J4 axis R	720°/s	±360°
Input/Output signals		Standard 16 in/16 out 24 VDC
Mounting position		Floor



Installation Environment

Temperature 0-45° CT Humidity 20~80%RH(no condensing) No corrosive or combustible gas, no water, no splashing No excessive oil or dust

Vibrations Below 4.9M/S2 (0.5G) Altitude Below 1000M Away from electromagnetic source Away from magnetic field

Control cabinet specifications

Overall dimension	420(width)*450(depth)*200(height)mm (with protrusions)
Approximate mass	18.5KG
Cooling method	Natural cooling
Power specifications	1PH 220V 50/60HZ
Grounding	Industrial grounding (dedicated grounding,resistance below100 $\!\Omega)$
Input/Output signal	General signal:16 input,16 output
Position control method	Serial communication EtherCAT.TCP/IP
Memory capacity	JOB: 200000 steps,10000 robot commands (total 200M)
LAN(Host link)	Ethercat(1pc) TCP/IP(1pc)
Control mode	Servo position control
Ambient temperature	In use:0~ + 45°C,In storage: - 20~ + 60°C
Driver unit	AC servo system (6-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

Serial port I/F

RS485(1pc) RS422(1pc) RS232(1pc) CAN(1pc) USB(1pc)

Altitude

Below 1000m. Derate 1% for every additional 100m if over 1000m. Maximum 2000m.

Others

No dust, cutting fluid (including coolant), organic solvent, oil smoke, water, salt, medicine, anti-rust oil, strong microwave, ultraviolet light, X-ray, radiation exposure

Teach pendent specifications

External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED,640*480 pixels
Protection class	IP54
Cable Length	Standard:5m Optional:15m

Manipulator

Selector, axis operation, value, mode selection with key (teach mode/auto mode/remote mode), emergency stop, enable, USB port etc



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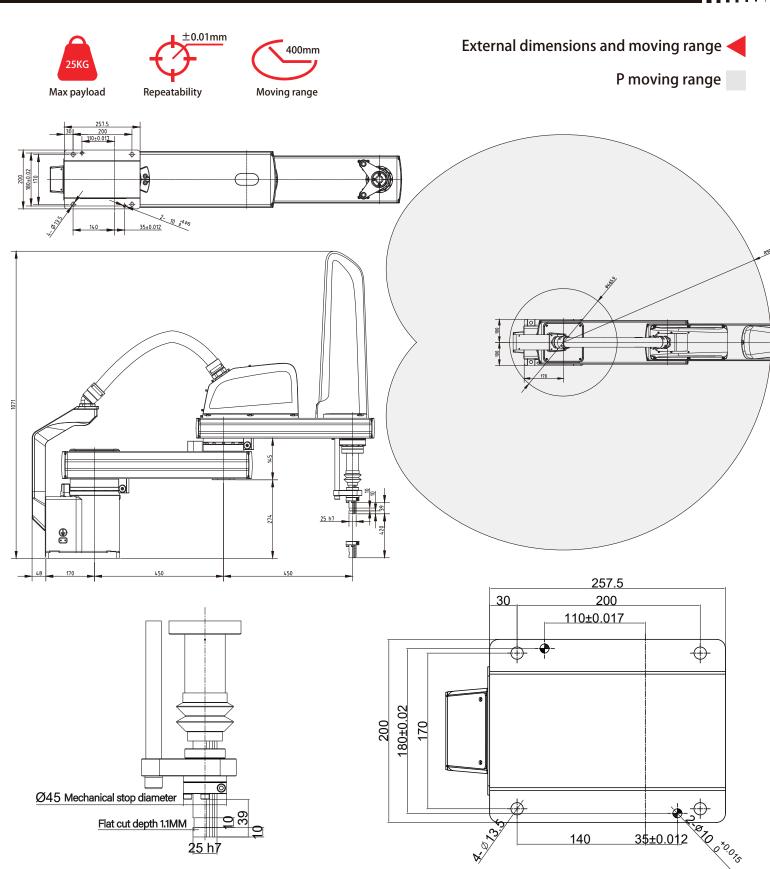
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End flange installation dimensions



TECHNICAL SPECIFICATION





PAYLOAD: 10-25KG REPEATABILITY: ±0.025mm





TECHNICAL SPECIFICATION

Installation Environment

Temperature 0-45° CT Humidity 20~80%RH(no condensing) No corrosive or combustible gas, no water, no splashing No excessive oil or dust

Vibrations Below 4.9M/S2 (0.5G) Altitude Below 1000M Away from electromagnetic source Away from magnetic field

Control cabinet specifications

•		
Overall dimension	420(width)*450(depth)*200(height)mm (with protrusions)	
Approximate mass	18.5KG	
Cooling method	Natural cooling	
Power specifications	1PH 220V 50/60HZ	
Grounding	Industrial grounding (dedicated grounding,resistance below100 $\!\Omega)$	
Input/Output signal	General signal:16 input,16 output	
Position control method	Serial communication EtherCAT.TCP/IP	
Memory capacity	JOB: 200000 steps,10000 robot commands (total 200M)	
LAN(Host link)	Ethercat(1pc) TCP/IP(1pc)	
Control mode	Servo position control	
Ambient temperature	In use:0~ + 45°C,In storage: − 20~ + 60°C	
Driver unit	AC servo system (6-axis)	
Relative humidity	10%~90%(no condensing)	
Vibrate	Below 0.5G	

Serial port I/F

RS485(1pc) RS422(1pc) RS232(1pc) CAN(1pc) USB(1pc)

Altitude

Below 1000m. Derate 1% for every additional 100m if over 1000m. Maximum 2000m.

Others

No dust, cutting fluid (including coolant), organic solvent, oil smoke, water, salt, medicine, anti-rust oil, strong microwave, ultraviolet light, X-ray, radiation exposure

Teach pendent specifications

External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED,640*480 pixels
Protection class	IP54
Cable Length	Standard:5m Optional:15m

Manipulator

Selector, axis operation, value, mode selection with key (teach mode/auto mode/remote mode), emergency stop, enable, USB port etc

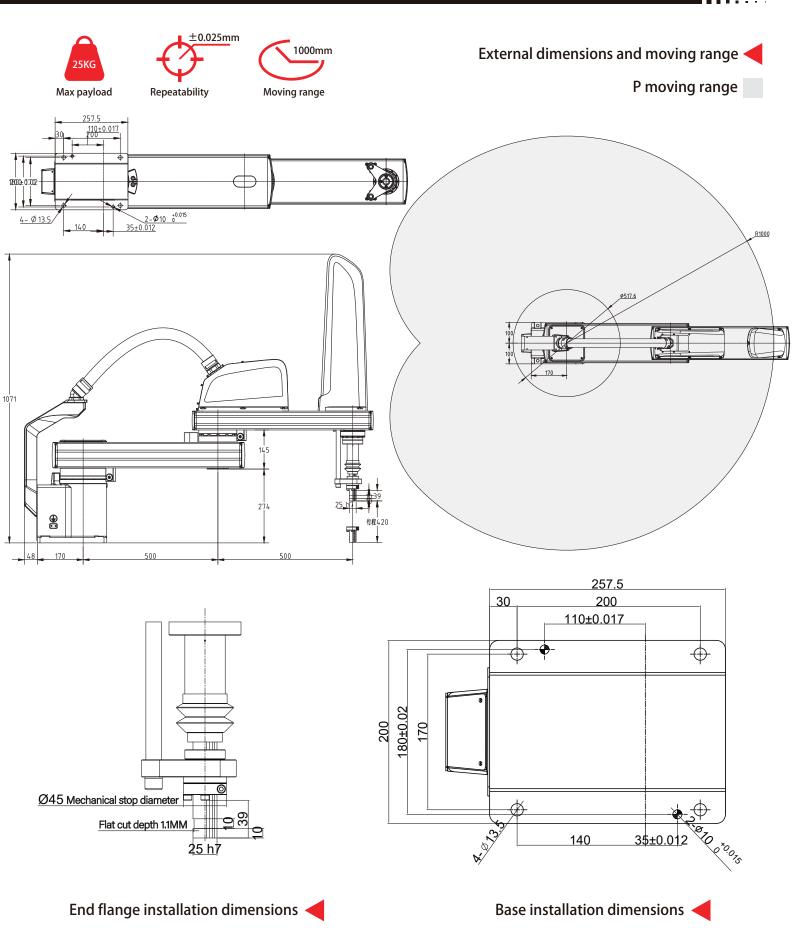


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PAYLOAD: 4KG REPEATABILITY: ±0.02mm





Axis	6 axis		Maximum speed	Movement range
Motion radius	580mm	J1 axis S	480°/s	±170°
Power capacity	2.0KVA	J2 axis L	460°/s	-150°~+90°
Payload	4KG	J3 axis U	520°/s	-70°~+200°
Repeatability	±0.02mm	J4 axis R	560°/s	±190°
Robot mass	27KG	J5 axis B	560°/s	±125°
Built-in air tube	Ф6	J6 axis T	880°/s	±360°
Protection class	IP67	Input/Output signals		Standard 16 in/16 out 24 VDC
		Mounting position		Floor/frame/ceiling



TECHNICAL SPECIFICATION



Temperature 0-45° CT Humidity 20~80%RH(no condensing) No corrosive or combustible gas, no water, no splashing No excessive oil or dust

Vibrations Below 4.9M/S2 (0.5G) Altitude Below 1000M Away from electromagnetic source Away from magnetic field

Control cabinet parameters

Overall dimension	420(width)*450(depth)*200(height)mm(with protrusions)
Rough quality	18.5KG
Cooling method	Natural cooling
Power specifications	1PH 220V 50/60HZ
Grounding	Industrial grounding (dedicated grounding,resistance below100 $\!\Omega)$
Input/Output signal	General signal:16 input,16 output
Position control method	Serial communication EtherCAT.TCP/IP
Memory capacity	JOB: 200000 steps,10000 robot commands (total 200M)
LAN(Host link)	Ethercat(1pcs) TCP/IP(1pcs)
Control mode	Servo position control
Ambient temperature	In use:0~ + 45 °C,In storage: – 20 ~ + 60 °C
Driver unit	AC servo system (4 axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

Serial port I/F

RS485(1pcs) RS422(1pcs) RS232(1pcs) CAN(1pcs) USB(1pcs)

Altitude

Below 1000m. Derate 1% for every additional 100m if over 1000m. Maximum 2000m.

Other

No dust, cutting fluid (including coolant), organic solvent, oil smoke, water, salt, medicine, anti-rust oil, strong microwave, ultraviolet light, X-ray, radiation exposure

Teach pendent specifications

External dimension	ns 280(width)*220(depth)*120(height)mm(with protrusions)
Gross weig	ht 0.6KG
Mater	al Reinforced plastics
Displ	ay 8 inch color LED,640*480 pixels
Protection cla	ss IP54
Cable Leng	th Standard:5m Optional:8m/10m/15m

manipulator

Selector, axis operation, value, mode selection with key (teach mode/auto mode/remote mode), emergency stop, enable, USB port etc



Please read the user manual and relevant documentations before use.

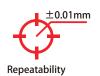
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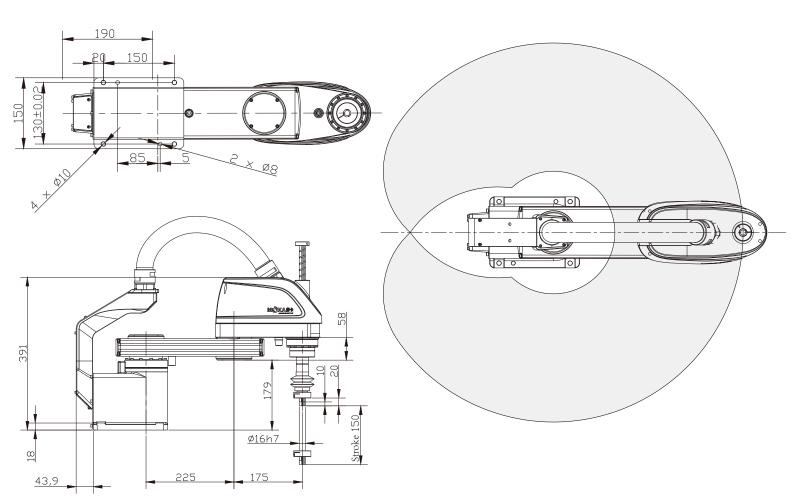


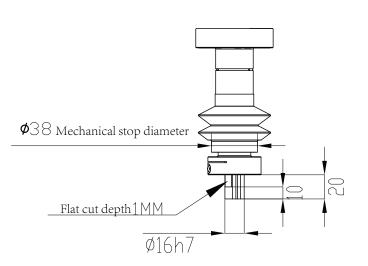




External dimensions and moving range

P moving range





150 $2 \times \emptyset 8_0^{+0.015}$ x Ø10 85±0,018 5±0,01

End flange installation dimensions







Number of axis	6-axis		Maximum speed	Moving range
Motion radius	580mm	J1 axis S	300°/s	±170°
Power capacity	2.0KVA	J2 axis L	300°/s	-140°~+80°
Max Payload	4KG	J3 axis U	400°/s	-75°~+200°
Repeatability	±0.02mm	J4 axis R	550°/s	±190°
Robot mass	27KG	J5 axis B	560°/s	±125°
Built-in air tube	Ф6	J6 axis T	975°/s	±360°
Protection class	IP67	Input/Output signals		Standard 16 in/16 out 24 VDC
		Mounting position		Floor/frame/ceiling



TECHNICAL SPECIFICATION

Installation Environment

Temperature 0-45° CT Humidity 20~80%RH(no condensing) No corrosive or combustible gas, no water, no splashing No excessive oil or dust

Vibrations Below 4.9M/S2 (0.5G) Altitude Below 1000M Away from electromagnetic source Away from magnetic field

Control cabinet specifications

Overall dimension	650(width)*495(depth)*580(height)mm (with protrusions)
Approximate mass	80KG
Cooling method	Natural cooling
Power specifications	3PH AC380V 50/60HZ (with built-in 380V~220V isolated transformer)
Grounding	Industrial grounding (dedicated grounding, resistance below 100 $\!\Omega)$
Input/Output signal	General signal:16 input,16 output
Position control method	Serial communication EtherCAT.TCP/IP
Memory capacity	JOB: 200000 steps,10000 robot commands (total 200M)
LAN(Host link)	Ethercat(1pc) TCP/IP(1pc)
Control mode	Servo position control
Ambient temperature	In use:0~ + 45° C,In storage: – 20 ~ + 60° C
Driver unit	AC servo system (6-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

Serial port I/F

RS485(1pc) RS422(1pc) RS232(1pc) CAN(1pc) USB(1pc)

Altitude

Below 1000m. Derate 1% for every additional 100m if over 1000m. Maximum 2000m.

Others

No dust, cutting fluid (including coolant), organic solvent, oil smoke, water, salt, medicine, anti-rust oil, strong microwave, ultraviolet light, X-ray, radiation exposure

Teach pendent specifications

External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED,640*480 pixels
Protection class	IP54
Cable Length	Standard:5m Optional:15m

Manipulator

Selector, axis operation, value, mode selection with key (teach mode/auto mode/remote mode), emergency stop, enable, USB port etc



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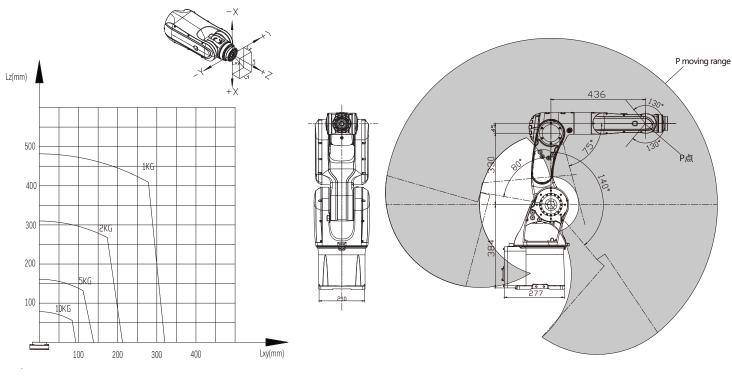


Robot payload diagram

n ┫

External dimensions and moving range

P moving range





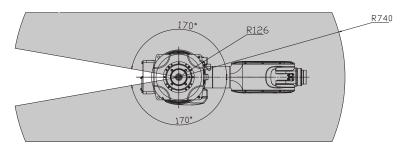
Max payload

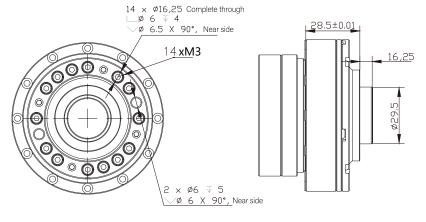


Repeatability



Moving range





185±0.023

4 × Ø11 Complete through

Ø 18 ▼ 0.5

2 ר8 Complete through

Ø 9 × 90°, Near side

End flange installation dimensions







Number of axis	6-axis
Motion radius	580mm
Power capacity	2.0KVA
Max Payload	4KG
Repeatability	±0.02mm
Robot mass	27KG
Built-in air tube	Ф6
Protection class	IP67

	Maximum speed	Moving range
J1 axis S	300°/s	±170°
J2 axis L	300°/s	-140°~+80°
J3 axis U	400°/s	-75°~+200°
J4 axis R	550°/s	±190°
J5 axis B	560°/s	±125°
J6 axis T	975°/s	±360°
Input/Outpu	t signals	Standard 16 in/16 out 24 VDC
Mounting po	sition	Floor/frame/ceiling



TECHNICAL SPECIFICATION

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Installation Environment

Temperature	0-45° CT	Humidity	20~80%RH(no condensing)		No corrosive or combustible gas, no water, no splashing	No excessive oil or dust
Vibrations	Below 4.9M/S2	(0.5G)	Altitude	Below 1000M	Away from electromagnetic source	Away from magnetic field

Control cabinet specifications -

650(width)*495(depth)*580(height)mm (with protrusions)
80KG
Natural cooling
3PH AC380V 50/60HZ (with built-in 380V~220V isolated transformer)
Industrial grounding (dedicated grounding, resistance below 100 Ω)
General signal:16 input,16 output
Serial communication EtherCAT.TCP/IP
JOB: 200000 steps,10000 robot commands (total 200M)
Ethercat(1pc) TCP/IP(1pc)
Servo position control
In use:0~ + 45° C,In storage: -20 ~ + 60° C
AC servo system (6-axis)
10%~90%(no condensing)
Below 0.5G

Serial port I/F

RS485(1pc) RS422(1pc) RS232(1pc) CAN(1pc) USB(1pc)

Altitude

Below 1000m. Derate 1% for every additional 100m if over 1000m. Maximum 2000m.

Others

No dust, cutting fluid (including coolant), organic solvent, oil smoke, water, salt, medicine, anti-rust oil, strong microwave, ultraviolet light, X-ray, radiation exposure

Teach pendent specifications

1	
External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED,640*480 pixels
Protection class	IP54
Cable Length	Standard:5m Optional:15m

Manipulator

Selector, axis operation, value, mode selection with key (teach mode/auto mode/remote mode), emergency stop, enable, USB port etc

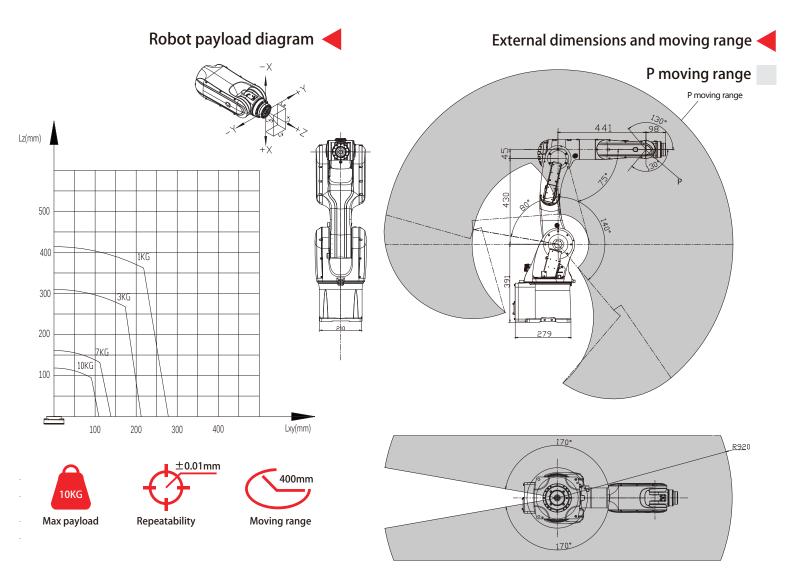


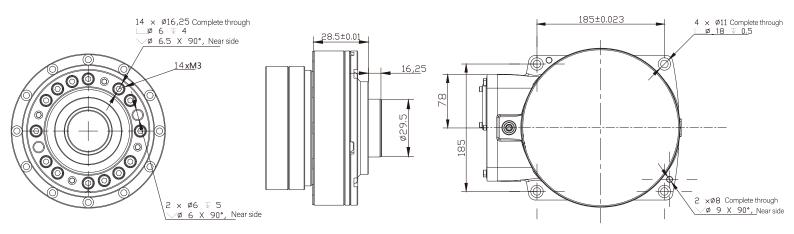
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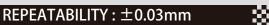






End flange installation dimensions

Base installation dimensions





PAYLOAD: 20KG

Number o	Number of axis 6-axis			Maximum speed	Moving range
Motion radius		2100mm	J1 axis S	202°/s	±180°
Power capacity		8.0KVA	J2 axis L	212°/s	+98° ~-160°
Max Payload		20KG	J3 axis U	270°/s	+200° ~-80°
Protection class		IP54/IP67	J4 axis R	470°/s	±200°
Repeatability		±0.03mm	J5 axis B	405°/s	+40° ~-220°
Robot mass		264KG	J6 axis T	650°/s	±360°
Built-in air	Built-in air tube		J4 axis R(N.m	1)	80
Input/Output signals	Input/Output signals Standard 16 in/16 out 24 VDC		J5 axis B(N.m)		80
Mounting position Floor/frame/ceiling		J6 axis T(N.m)		50	



TECHNICAL SPECIFICATION

3000000

Installation Environment

Temperature 0-45° CT Humidity 20~80%RH(no condensing) No corrosive or combustible gas, no water, no splashing No excessive oil or dust

Vibrations Below 4.9M/S2 (0.5G) Altitude Below 1000M Away from electromagnetic source Away from magnetic field

Control cabinet

specifications

Overall dimension	700(width)*530(depth)*740(height)mm (with protrusions)
Approximate mass	100KG
Cooling method	Natural cooling
Power specifications	3PH AC380V 50/60HZ (with built-in 380V~220V isolated transformer)
Grounding	Industrial grounding (dedicated grounding,resistance below100 $\!\Omega)$
Input/Output signal	General signal:16 input,16 output
Position control method	Serial communication EtherCAT.TCP/IP
Memory capacity	JOB: 200000 steps,10000 robot commands (total 200M)
LAN(Host link)	Ethercat(1pc) TCP/IP(1pc)
Control mode	Servo position control
Ambient temperature	In use:0~ + 45 °C,In storage: – 20 ~ + 60 °C
Driver unit	AC servo system (6-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

Serial port I/F

RS485(1pc) RS422(1pc) RS232(1pc) CAN(1pc) USB(1pc)

Altitude

Below 1000m. Derate 1% for every additional 100m if over 1000m. Maximum 2000m.

Others

No dust, cutting fluid (including coolant), organic solvent, oil smoke, water, salt, medicine, anti-rust oil, strong microwave, ultraviolet light, X-ray, radiation exposure

Teach pendent specifications

External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED,640*480 pixels
Protection class	IP54
Cable Length	Standard:5m Optional:15m

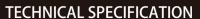
Manipulator

Selector, axis operation, value, mode selection with key (teach mode/auto mode/remote mode), emergency stop, enable, USB port etc

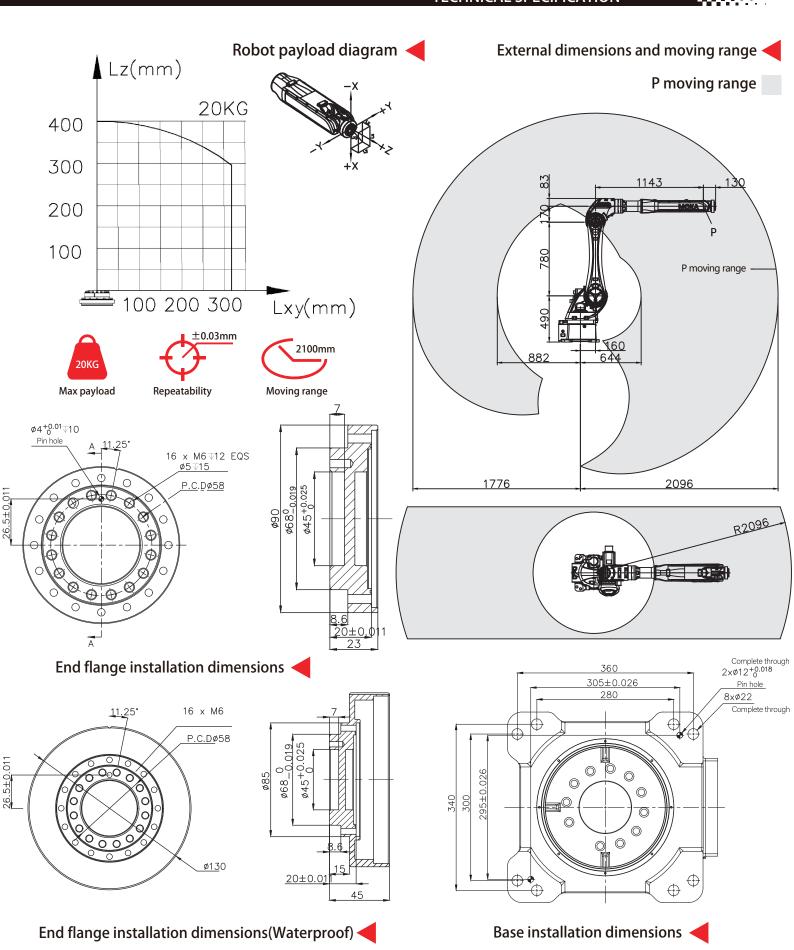


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PAYLOAD: 35KG REPEATABILITY: ±0.03mm





Number o	of axis 0-axis			Maximum speed	Moving range
Motion ra	adius	1870mm	J1 axis S	202° /s	±180°
Power cap	Power capacity		J2 axis L	211°/s	+98° ~-160°
Max Payload		35KG	J3 axis U	234°/s	+200° ~-80°
Repeatability		±0.03mm	J4 axis R	470° /s	±200°
Robot mass		260KG	J5 axis B	405°/s	+40° ~-220°
Built-in air tube		Φ8	J6 axis T	535°/s	±360°
Protection	Protection class IP54/IP67		J4 axis R(N.m)	Axis 4 R (N.m)	80
Input/Output signals	Standard 16 in/16 out 24 VDC		J5 axis B(N.m)	Axis 5 B (N.m)	80
Mounting position	Floor/frame/ceiling		J6 axis T(N.m)	Axis 6 T (N.m)	50



TECHNICAL SPECIFICATION

				TECHNICAL SPECIFICATION		
Installation						
Environmen						
Temperature	0-45° CT	Humidity	20~80%RH(no condensing			
Vibrations	Below 4.9M/S2	(0.5G)	Altitude Below 1000M	Away from electromagnetic source Away from magnetic field		
Control cab	inet					
specificatio	ns					
		(Overall dimension	700(width)*530(depth)*740(height)mm (with protrusions)		
			Rough quality	100KG		
			Cooling method	Natural cooling		
		Pov	ver specifications	3PH AC380V 50/60HZ (with built-in 380V~220V isolated transformer)		
			Grounding	Industrial grounding (dedicated grounding,resistance below 100 Ω		
		Inpu	ıt/Output signal	General signal:16 input,16 output		
		Position	control method	Serial communication EtherCAT.TCP/IP		
		٨	Nemory capacity	JOB: 200000 steps,10000 robot commands (total 200M)		
			LAN(Host link)	Ethercat(1pc) TCP/IP(1pc)		
			Control mode	Servo position control		
		Ambie	ent temperature	In use:0~ + 45°C,In storage: − 20~ + 60°C		
			Driver unit	AC servo system (6-axis)		
		Re	elative humidity	10%~90%(no condensing)		
			Vibrate	Below 0.5G		
Serial port	I/F					
		RS4	85(1pc) RS422(1pc) RS232	2(1pc) CAN(1pc) USB(1pc)		
Altitude						
	Below	1000m. D	erate 1% for every addition	onal 100m if over 1000m. Maximum 2000m.		
Others						
No dust, cutti	ng fluid (includi	ng coolan	t), organic solvent, oil sm ultraviolet light, X-ray, r	oke, water, salt, medicine, anti-rust oil, strong microwave, adiation exposure		
Teach pen specification						
_		Ex	cternal dimensions	280(width)*220(depth)*120(height)mm (with protrusions)		
			Gross weight	0.6KG		
			Material	Reinforced plastics		
			Display	8 inch color LED,640*480 pixels		
			Protection class	•		

Manipulator

Selector, axis operation, value, mode selection with key (teach mode/auto mode/remote mode), emergency stop, enable, USB port etc



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Cable Length

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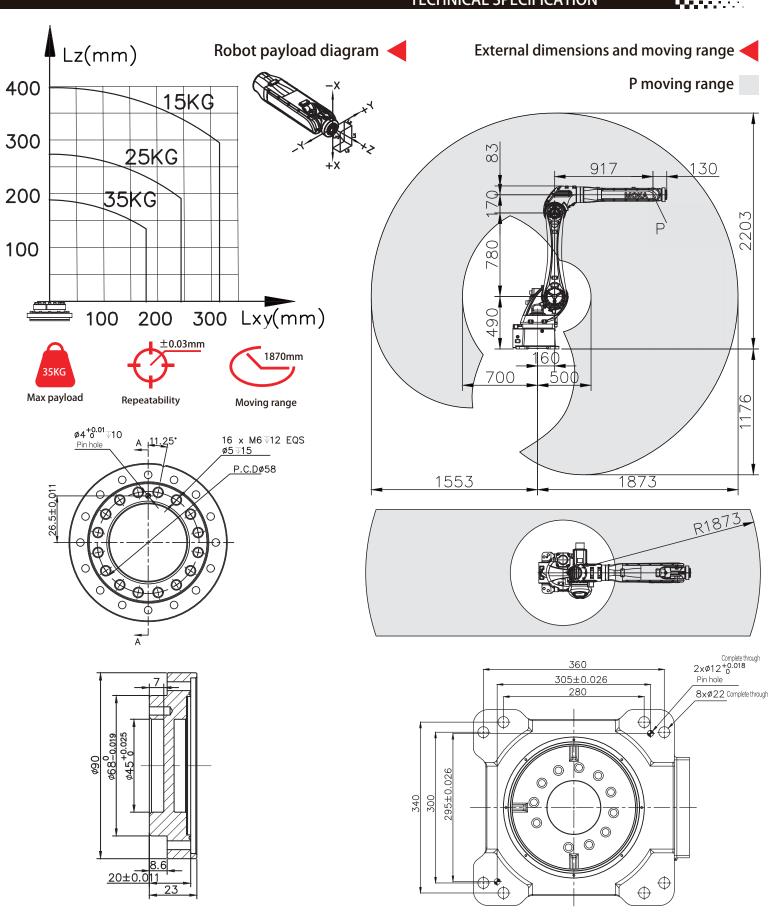
Standard:5m Optional:15m

End flange installation dimensions



TECHNICAL SPECIFICATION





Base installation dimensions

PAYLOAD: 45KG REPEATABILITY: ±0.03mm





Number of	Number of axis					
Motion ra	Motion radius					
Power cap	8.0KVA					
Max Pay	Max Payload					
Repeatal	Repeatability					
Robot	Robot mass					
Built-in air	Ф8					
Protection	Protection class					
Input/Output signals	Input/Output signals Standa					
Mounting position	Mounting position Floor/frame/ceiling					

	Maximum speed	Moving range
J1 axis S	202°/s	±180°
J2 axis L	211°/s	+98° ~-160°
J3 axis U	210°/s	+200° ~-80°
J4 axis R	420°/s	±200°
J5 axis B	285°/s	+40° ~-220°
J6 axis T	410°/s	±360°
J4 axis R(N.m)	Axis 4 R (N.m)	103
J5 axis B(N.m)	Axis 5 B (N.m)	103
J6 axis T(N.m)	Axis 6 T (N.m)	100



TECHNICAL SPECIFICATION

Installation					TECHNICAL SPECIFICATION	•••••	
nstallation Environmen							
Temperature	0-45° CT	Humidity	20~80%RH	no condensing)	No corrosive or combustible gas, no water, no splashing	No excessive oil or di	
Vibrations	Below 4.9M/S2	,		elow 1000M	Away from electromagnetic source	Away from magnetic fie	
Control cabi	net				,	.,	
specification							
		(Overall dim	ension	700(width)*530(depth)*740(height)mm	(with protrusions)	
			Rough	quality	100KG		
			Cooling	nethod	Natural cooling		
		Pov	wer specific	ations	3PH AC380V 50/60HZ (with built-in 380V~220\	/ isolated transforme	
			Gro	unding	Industrial grounding (dedicated grounding, re	esistance below100Ω	
		Inp	ıt/Output	signal	General signal:16 input,16 o	utput	
		Position	control m	ethod	Serial communication EtherCAT.TCP/IP		
		I	Nemory ca	pacity	JOB: 200000 steps,10000 robot commands (total 200M)		
			LAN(Hos	st link)	Ethercat(1pc) TCP/IP(1pc)		
			Contro	mode	Servo position control		
		Ambi	ent tempe	rature	In use:0~ + 45°C,In storage: -	- 20~ + 60°C	
			Driv	er unit	AC servo system (6-a)	(is)	
		R	elative hu	midity	10%~90%(no condens	sing)	
			1	/ibrate	Below 0.5G		
Serial port I	/F						
		RS4	85(1pc) RS4	22(1pc) RS232	(1pc) CAN(1pc) USB(1pc)		
Altitude							
	Below	1000m. D	erate 1% foi	every additio	nal 100m if over 1000m. Maximum 2000m.		
Others							
No dust, cuttir	ng fluid (includi	ng coolar	it), organic s ultraviolet	olvent, oil smo light, X-ray, ra	oke, water, salt, medicine, anti-rust oil, stro adiation exposure	ng microwave,	
Teach pend specification							
		E	xternal dii	mensions	280(width)*220(depth)*120(height)mm	(with protrusions)	
			Gro	ss weight	0.6KG		
				Material	Reinforced plastics		
				8 inch color LED,640*480 pixels			

Manipulator

Selector, axis operation, value, mode selection with key (teach mode/auto mode/remote mode), emergency stop, enable, USB port etc



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Protection class

Cable Length

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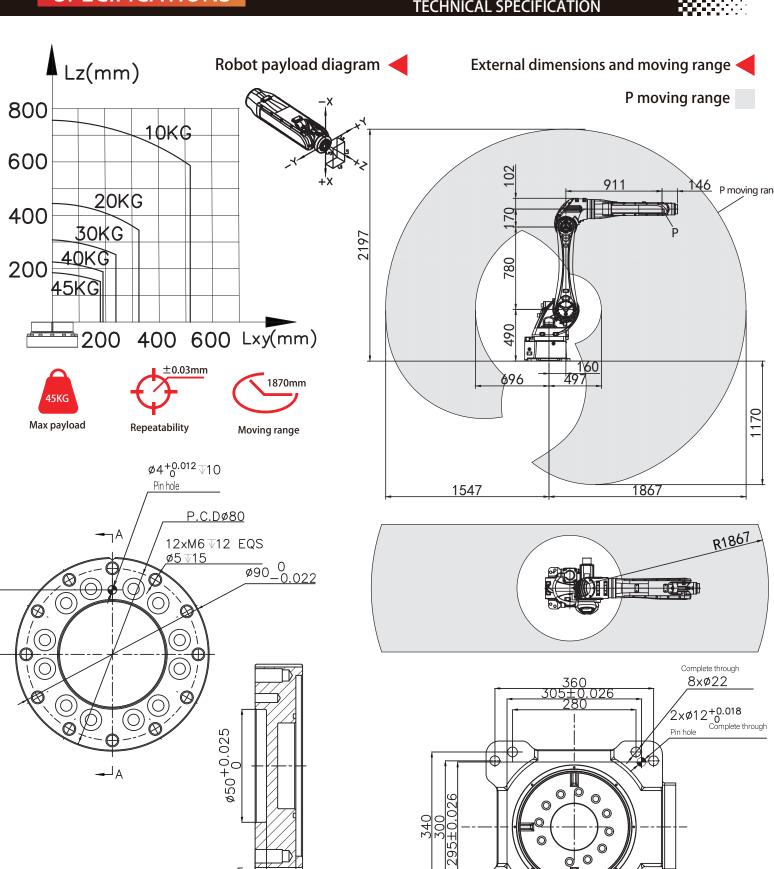
IP54

Standard:5m Optional:15m



TECHNICAL SPECIFICATION





End flange installation dimensions

30±0.01

Base installation dimensions

<u>_</u> Ф

PAYLOAD: 180KG REPEATABILITY: ±0.06mm





Number	Number of axis					
Motion	3200mm					
Power cap	25.0KVA					
Max Payload 180KG						
Protection class IP54/IP67						
Repeata	±0.06mm					
Robot mass 1300KG						
Built-in air	Ф10					
Input/Output signals	Input/Output signals Standa					
Mounting position Floor						

	Maximum speed	Moving range
J1 axis S	120° /s	±180°
J2 axis L	110°/s	+60° ~-180°
J3 axis U	115°/s	+95° ~-80°
J4 axis R	190°/s	±210°
J5 axis B	185°/s	±125°
J6 axis T	280°/s	±360°
J4 axis R(N.m)		1134
J5 axis B(N.m)		1134
J6 axis T(N.m)		735



TECHNICAL SPECIFICATION



Installation Environment

Temperature	0-45° CT	Humidity	20~80%RH(no condensing)		No corrosive or combustible gas, no water, no splashing	No excessive oil or dust
Vibrations	Below 4.9M/S2	(0.5G)	Altitude	Below 1000M	Away from electromagnetic source	Away from magnetic field

Control cabinet_ specifications

Specifications	
Overall dimension	873(width)*600(depth)*940(height)mm (with protrusions)
Approximate mass	170KG
Cooling method	Natural cooling
Power specifications	3PH AC380V 50/60HZ
Grounding	Industrial grounding (dedicated grounding,resistance below100 $\!\Omega)$
Input/Output signal	General signal:16 input,16 output
Position control method	Serial communication EtherCAT.TCP/IP
Memory capacity	JOB: 200000 steps,10000 robot commands (total 200M)
LAN(Host link)	Ethercat(1pc) TCP/IP(1pc)
Control mode	Servo position control
Ambient temperature	In use:0~ + 45°C,In storage: – 20~ + 60°C
Driver unit	AC servo system (6-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

Serial port I/F

RS485(1pc) RS422(1pc) RS232(1pc) CAN(1pc) USB(1pc)

Altitude

Below 1000m. Derate 1% for every additional 100m if over 1000m. Maximum 2000m.

Others

No dust, cutting fluid (including coolant), organic solvent, oil smoke, water, salt, medicine, anti-rust oil, strong microwave, ultraviolet light, X-ray, radiation exposure

Teach pendent

specifications

Specifications	
External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED,640*480 pixels
Protection class	IP54
Cable Length	Standard:5m Optional:15m

Manipulator

Selector, axis operation, value, mode selection with key (teach mode/auto mode/remote mode), emergency stop, enable, USB port etc

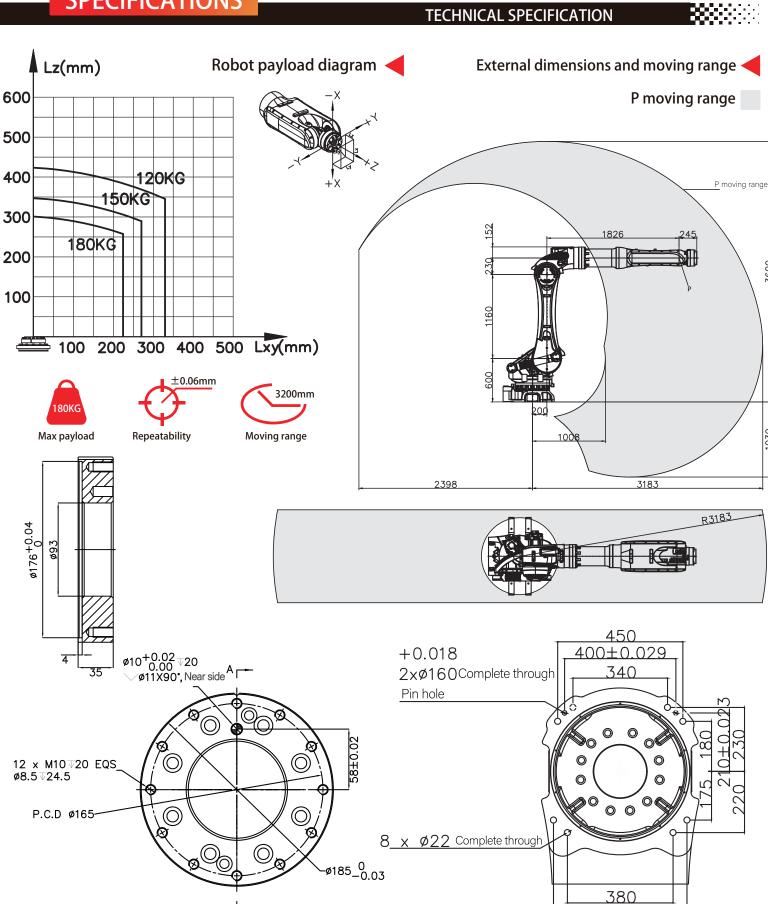


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49

End flange installation dimensions(Waterproof)

Base installation dimensions

480



PAYLOAD: 210KG REPEATABILITY: ±0.06mm





Number	Nulliber of axis	
Motion r	Motion radius	
Power cap	Power capacity	
Max Pa	Max Payload	
Protection	Protection class	
Repeatability		±0.06mm
Robot mass		1240KG
Built-in air tube		Ф10
Input/Output signals Standar		rd 16 in/16 out 24 VDC
Mounting position		Floor

	Maximum speed	Moving range
J1 axis S	120°/s	±180°
J2 axis L	110°/s	+60° ~-180°
J3 axis U	115°/s	+95° ~-80°
J4 axis R	190°/s	±210°
J5 axis B	150°/s	±125°
J6 axis T	220°/s	±360°
J4 axis R(N.m)		1134
J5 axis B(N.m)		1134
J6 axis T(N.m)		735



TECHNICAL SPECIFICATION



Installation Environment

Temperature	0-45° CT	Humidity	20~80%RH(i	no condensing)	No corrosive or combustible gas, no water, no splashing	No excessive oil or dust
Vibrations	Below 4.9M/S2	(0.5G)	Altitude	Below 1000M	Away from electromagnetic source	Away from magnetic field

Control cabinet

specifications	
Overall dimension	873(width)*600(depth)*940(height)mm (with protrusions)
Approximate mass	170KG
Cooling method	Natural cooling
Power specifications	3PH AC380V 50/60HZ
Grounding	Industrial grounding (dedicated grounding,resistance below100 $\!\Omega)$
Input/Output signal	General signal:16 input,16 output
Position control method	Serial communication EtherCAT.TCP/IP
Memory capacity	JOB: 200000 steps,10000 robot commands (total 200M)
LAN(Host link)	Ethercat(1pc) TCP/IP(1pc)
Control mode	Servo position control
Ambient temperature	In use:0~ + 45°C,In storage: -20 ~ + 60 °C
Driver unit	AC servo system (6-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

Serial port I/F

RS485(1pc) RS422(1pc) RS232(1pc) CAN(1pc) USB(1pc)

Altitude

Below 1000m. Derate 1% for every additional 100m if over 1000m. Maximum 2000m.

Others

No dust, cutting fluid (including coolant), organic solvent, oil smoke, water, salt, medicine, anti-rust oil, strong microwave, ultraviolet light, X-ray, radiation exposure

Teach pendent

specifications	
External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED,640*480 pixels
Protection class	IP54
Cable Length	Standard:5m Optional:15m

Manipulator

Selector, axis operation, value, mode selection with key (teach mode/auto mode/remote mode), emergency stop, enable, USB port etc



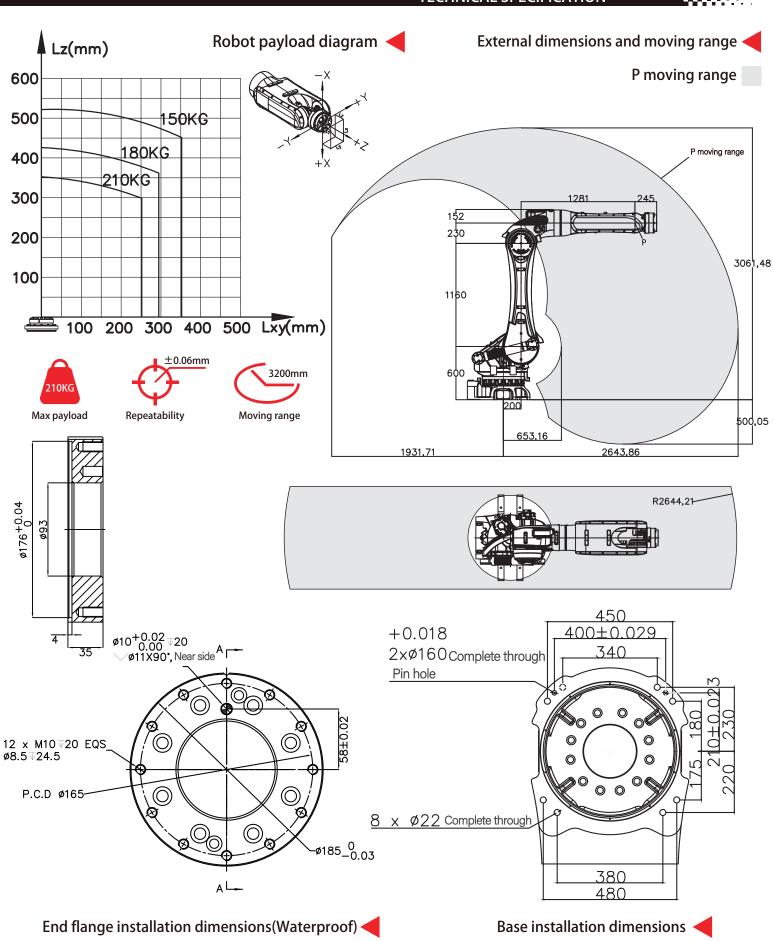
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TECHNICAL SPECIFICATION







Number	Number of axis	
Motion r	Motion radius	
Power cap	Power capacity	
Max Pa	yload	280KG
Protection	Protection class	
Repeatability		±0.06mm
Robot mass		1240KG
Built-in air tube		Ф10
Input/Output signals Standa		rd 16 in/16 out 24 VDC
Mounting position Floor		Floor

	Maximum speed	Moving range
J1 axis S	120°/s	±180°
J2 axis L	110°/s	+60° ~-180°
J3 axis U	115°/s	+95° ~-80°
J4 axis R	190°/s	±210°
J5 axis B	135°/s	±125°
J6 axis T	220° /s	±360°
J4 axis R(N.n	n)	1134
J5 axis B(N.m)		1134
J6 axis T(N.n	n)	752



TECHNICAL SPECIFICATION

Installation Environment

Temperature 0-45° CT Humidity 20~80%RH(no condensing) No corrosive or combustible gas, no water, no splashing No excessive oil or dust

Vibrations Below 4.9M/S2 (0.5G) Altitude Below 1000M Away from electromagnetic source Away from magnetic field

Control cabinet specifications

Overall dimension	873(width)*600(depth)*940(height)mm (with protrusions)
Approximate mass	170KG
Cooling method	Natural cooling
Power specifications	3PH AC380V 50/60HZ
Grounding	Industrial grounding (dedicated grounding,resistance below100 $\!\Omega)$
Input/Output signal	General signal:16 input,16 output
Position control method	Serial communication EtherCAT.TCP/IP
Memory capacity	JOB: 200000 steps,10000 robot commands (total 200M)
LAN(Host link)	Ethercat(1pc) TCP/IP(1pc)
Control mode	Servo position control
Ambient temperature	In use:0~ + 45°C,In storage: − 20~ + 60°C
Driver unit	AC servo system (6-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

Serial port I/F

RS485(1pc) RS422(1pc) RS232(1pc) CAN(1pc) USB(1pc)

Altitude

Below 1000m. Derate 1% for every additional 100m if over 1000m. Maximum 2000m.

Others

No dust, cutting fluid (including coolant), organic solvent, oil smoke, water, salt, medicine, anti-rust oil, strong microwave, ultraviolet light, X-ray, radiation exposure

Teach pendent

specifications		
	External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
	Gross weight	0.6KG
	Material	Reinforced plastics
	Display	8 inch color LED,640*480 pixels
	Protection class	IP54
	Cable Length	Standard:5m Optional:15m

Manipulator

Selector, axis operation, value, mode selection with key (teach mode/auto mode/remote mode), emergency stop, enable, USB port etc



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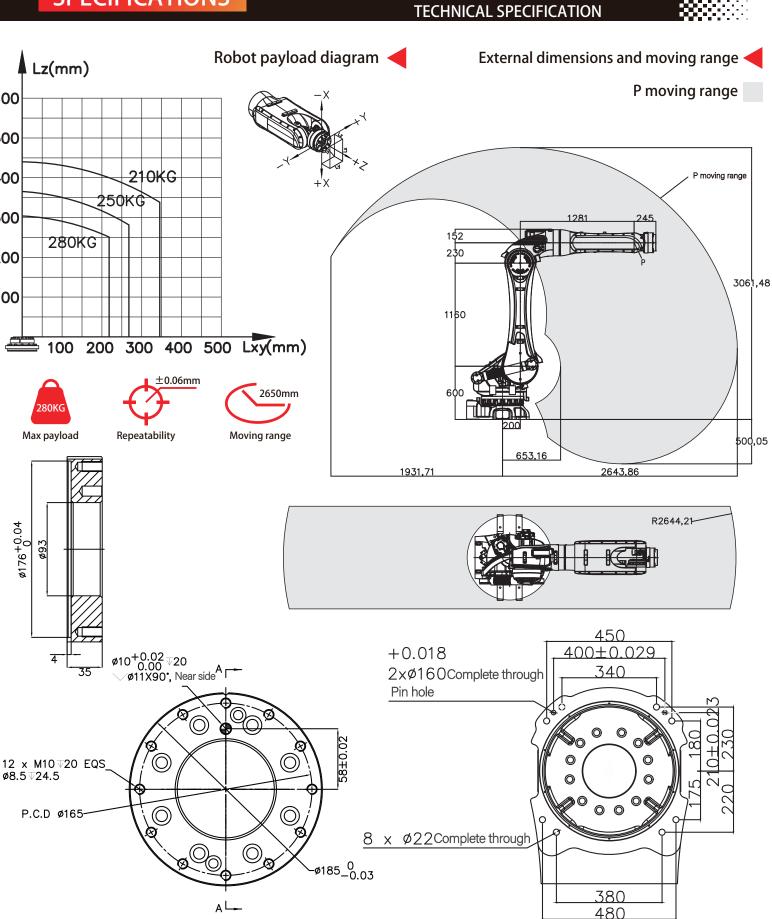
500

400

300

200

100



End flange installation dimensions(Waterproof)

Base installation dimensions

PAYLOAD: 10KG

REPEATABILITY: ±0.05mm



Number of axis	4-axis
Motion radius	1488mm
Power capacity	3.0KVA
Max Payload	10KG
Protection class	IP56/IP67
Repeatability	±0.05mm
Robot mass	165KG
Built-in air tube	Ф10

	Maximum speed	Moving range
J1 axis S	223°/s	±170°
J2 axis L	173°/s	-32° ~+80°
J3 axis U	300°/s	+20° ~-90°
J4 axis R	480°/s	±360°
	Input/Output signals	Standard 16 in/16 out 24 VDC
	Mounting position	Floor/frame/ceiling



TECHNICAL SPECIFICATION

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Installation Environment

Temperature	0-45° CT	Humidity	20~80%RH(no condensing)		No corrosive or combustible gas, no water, no splashing	No excessive oil or dust
Vibrations	Below 4.9M/S2	(0.5G)	Altitude	Below 1000M	Away from electromagnetic source	Away from magnetic field

Control cabinet

specifications	
Overall dimension	490(width)*400(depth)*365(height)mm (with protrusions)
Approximate mass	40KG
Cooling method	Natural cooling
Power specifications	1PH AC220V 50/60HZ
Grounding	Industrial grounding (dedicated grounding,resistance below100 $\!\Omega)$
Input/Output signal	General signal:16 input,16 output
Position control method	Serial communication EtherCAT.TCP/IP
Memory capacity	JOB: 200000 steps,10000 robot commands (total 200M)
LAN(Host link)	Ethercat(1pc) TCP/IP(1pc)
Control mode	Servo position control
Ambient temperature	In use:0~ + 45°C,In storage: – 20~ + 60°C
Driver unit	AC servo system (6-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

Serial port I/F

RS485(1pc) RS422(1pc) RS232(1pc) CAN(1pc) USB(1pc)

Altitude

Below 1000m. Derate 1% for every additional 100m if over 1000m. Maximum 2000m.

Others

No dust, cutting fluid (including coolant), organic solvent, oil smoke, water, salt, medicine, anti-rust oil, strong microwave, ultraviolet light, X-ray, radiation exposure

Teach pendent

specifi	catio	ons

Specifications	
External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED,640*480 pixels
Protection class	IP54
Cable Length	Standard:5m Optional:15m

Manipulator

Selector, axis operation, value, mode selection with key (teach mode/auto mode/remote mode), emergency stop, enable, USB port etc



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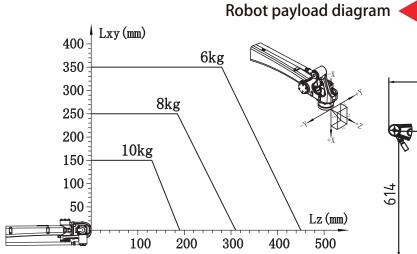
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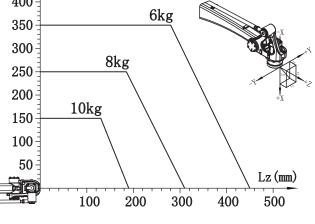
TECHNICAL SPECIFICATION

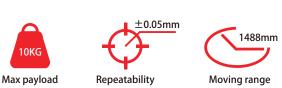


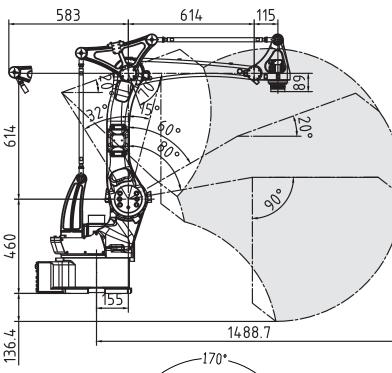


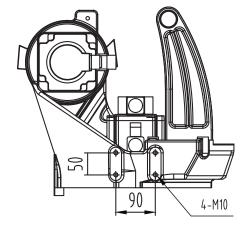


P moving range



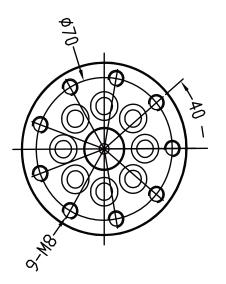


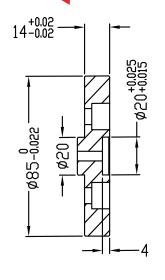


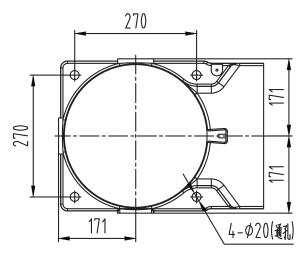


R460 ø1488. -170°

Swivel installation dimensions







End flange installation dimensions(Waterproof)

Base installation dimensions





PAYLOAD: 10KG REPEATABILITY: ±0.05mm





SPECIAL FOR WELDING
(Gas shielding, Argon arc, Laser, Aluminum, Stainless steel, Carbon steel)

Number	Number of axis	
Motion	Motion radius	
Power cap	Power capacity	
Max Pa	yload	10KG
Protection	Protection class	
Repeatability		±0.05mm
Robot mass		210KG
Built-in air tube		Ф10
Input/Output signals	Standa	rd 16 in/16 out 24 VDC
Mounting position	Flo	oor/frame/ceiling

	Maximum speed	Moving range
J1 axis S	285°/s	±167°
J2 axis L	247°/s	+80° ~-145°
J3 axis U	285°/s	+145° ~-75°
J4 axis R	392° /s	±190°
J5 axis B	272°/s	+50° ~-210°
J6 axis T	1353°/s	±220°
J4 axis R(N.m)	103.5
J5 axis B(N.m)	51.84
J6 axis T(N.m)		32.64



TECHNICAL SPECIFICATION

Installation Environment

Temperature 0-45° CT Humidity 20~80%RH(no condensing) No corrosive or combustible gas, no water, no splashing No excessive oil or dust

Vibrations Below 4.9M/S2 (0.5G) Altitude Below 1000M Away from electromagnetic source Away from magnetic field

Control cabinet

specifications

• "	700/ :1:1/*520/1 (1/*740/1 : 1:) / ::1 (
Overall dimension	700(width)*530(depth)*740(height)mm (with protrusions)
Approximate mass	60KG
Cooling method	Natural cooling
Power specifications	1PH AC220V 50/60HZ
Grounding	Industrial grounding (dedicated grounding,resistance below100 $\!\Omega)$
Input/Output signal	General signal:16 input,16 output
Position control method	Serial communication EtherCAT.TCP/IP
Memory capacity	JOB: 200000 steps,10000 robot commands (total 200M)
LAN(Host link)	Ethercat(1pc) TCP/IP(1pc)
Control mode	Servo position control
Ambient temperature	In use:0~ + 45° C,In storage: – 20 ~ + 60° C
Driver unit	AC servo system (6-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

Serial port I/F

RS485(1pc) RS422(1pc) RS232(1pc) CAN(1pc) USB(1pc)

Altitude

Below 1000m. Derate 1% for every additional 100m if over 1000m. Maximum 2000m.

Others

No dust, cutting fluid (including coolant), organic solvent, oil smoke, water, salt, medicine, anti-rust oil, strong microwave, ultraviolet light, X-ray, radiation exposure

Teach pendent

specit	ıcatı	ons
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External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED,640*480 pixels
Protection class	IP54
Cable Length	Standard:5m Optional:15m

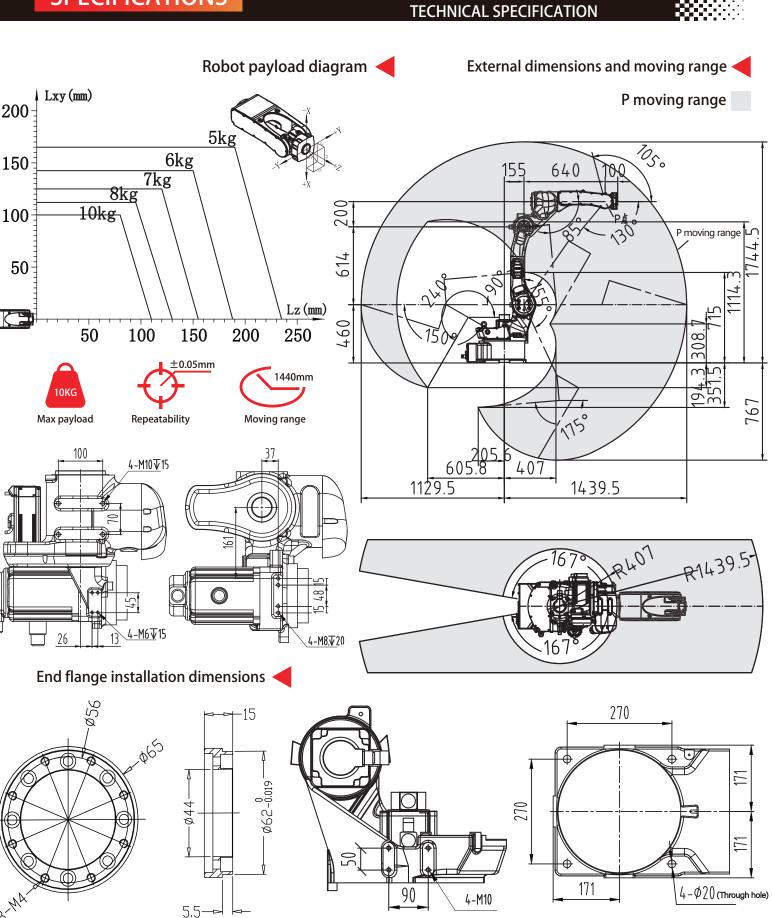
Manipulator

Selector, axis operation, value, mode selection with key (teach mode/auto mode/remote mode), emergency stop, enable, USB port etc



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End flange installation dimensions (Waterproof) Swivel installation dimensions Base installation dimensions



PAYLOAD: 12KG REPEATABILITY: ±0.05mm





Number	Number of axis			
Motion r	Motion radius			
Power cap	4.5KVA			
Max Pa	Max Payload			
Protection	IP56/IP67			
Repeatability		±0.05mm		
Robot mass		313KG		
Built-in air tube		Ф10		
Input/Output signals	Input/Output signals Standa			
Mounting position	Mounting position FI			

	Maximum speed	Moving range
J1 axis S	203°/s	±165°
J2 axis L	223°/s	+80° ~-145°
J3 axis U	214°/s	+145° ~-75°
J4 axis R	392°/s	±190°
J5 axis B	276°/s	+50° ~-210°
J6 axis T	1356°/s	±220°
J4 axis R(N.m)		88.5
J5 axis B(N.m)		45.52
J6 axis T(N.m)		32.64



TECHNICAL SPECIFICATION

Installation **Environment**

Temperature 0-45° CT Humidity 20~80%RH(no condensing) No corrosive or combustible gas, no water, no splashing No excessive oil or dust Vibrations Below 4.9M/S2 (0.5G) Below 1000M Away from electromagnetic source Away from magnetic field

Control cabinet

specifications

Specifications.	
Overall dimension	700(width)*530(depth)*740(height)mm (with protrusions)
Approximate mass	60KG
Cooling method	Natural cooling
Power specifications	1PH AC220V 50/60HZ
Grounding	Industrial grounding (dedicated grounding,resistance below100 $\!\Omega)$
Input/Output signal	General signal:16 input,16 output
Position control method	Serial communication EtherCAT.TCP/IP
Memory capacity	JOB: 200000 steps,10000 robot commands (total 200M)
LAN(Host link)	Ethercat(1pc) TCP/IP(1pc)
Control mode	Servo position control
Ambient temperature	In use:0~ + 45°C,In storage: − 20~ + 60°C
Driver unit	AC servo system (6-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

Serial port I/F

RS485(1pc) RS422(1pc) RS232(1pc) CAN(1pc) USB(1pc)

Altitude

Below 1000m. Derate 1% for every additional 100m if over 1000m. Maximum 2000m.

Others

No dust, cutting fluid (including coolant), organic solvent, oil smoke, water, salt, medicine, anti-rust oil, strong microwave, ultraviolet light, X-ray, radiation exposure

Teach pendent

specification	ς
3pccilication	9

Specifications	
External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED,640*480 pixels
Protection class	IP54
Cable Length	Standard:5m Optional:15m

Manipulator

Selector, axis operation, value, mode selection with key (teach mode/auto mode/remote mode), emergency stop, enable, USB port etc



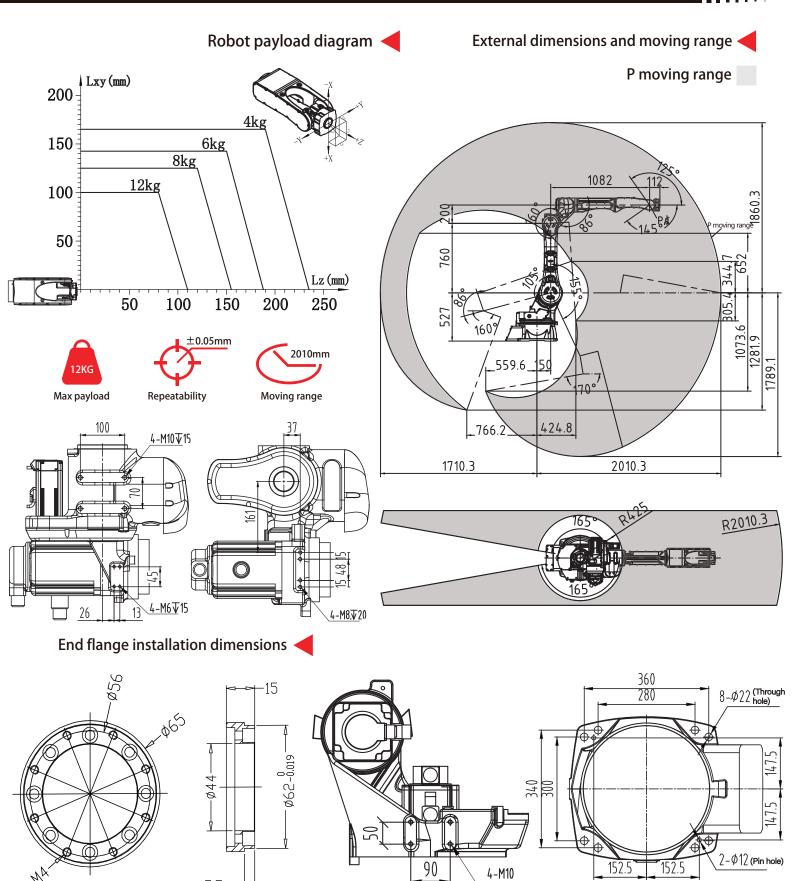
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TECHNICAL SPECIFICATION



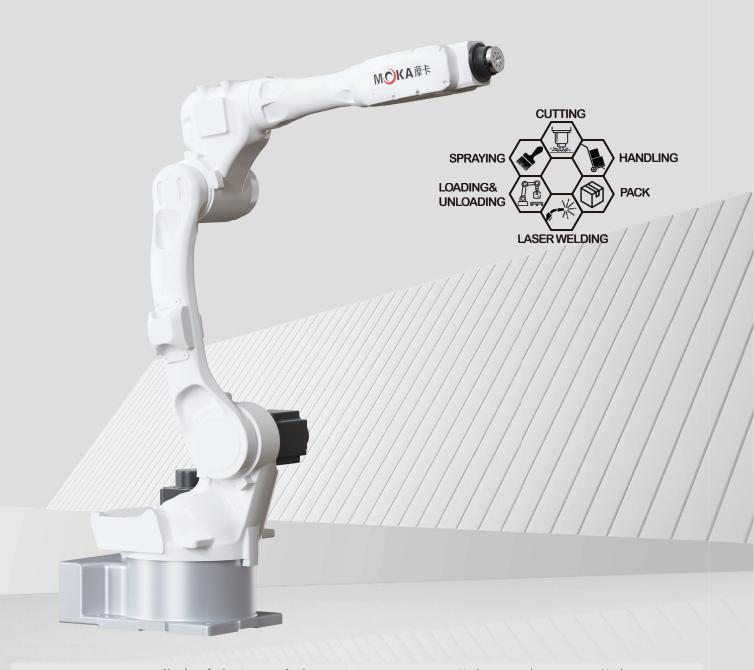


End flange installation dimensions(Waterproof) < Swivel installation dimensions < Base installation dimensions

5.5-

PAYLOAD: 12KG

REPEATABILITY: ±0.05mm



Number of axis		6-axis
Motion	Motion radius	
Power capacity		4.5KVA
Max Pa	yload	12KG
Protection class		IP56/IP67
Repeatability		±0.05mm
Robot mass		210KG
Built-in air tube		Ф10
Input/Output signals Standa		rd 16 in/16 out 24 VDC
Mounting position Fl		oor/frame/ceiling

	Maximum speed	Moving range
J1 axis S	257°/s	±170°
J2 axis L	223°/s	+80° ~-145°
J3 axis U	257°/s	+145° ~-75°
J4 axis R	272°/s	±190°
J5 axis B	275°/s	+20° ~-200°
J6 axis T	540°/s	±360°
J4 axis R(N.m)		103.5
J5 axis B(N.m)		51.84
J6 axis T(N.m)		32.64



TECHNICAL SPECIFICATION

Installation Environment

Temperature 0-45° CT Humidity 20~80%RH(no condensing) No corrosive or combustible gas, no water, no splashing No excessive oil or dust

Vibrations Below 4.9M/S2 (0.5G) Altitude Below 1000M Away from electromagnetic source Away from magnetic field

Control cabinet

specifications

Specifications.	
Overall dimension	700(width)*530(depth)*740(height)mm (with protrusions)
Approximate mass	60KG
Cooling method	Natural cooling
Power specifications	1PH AC220V 50/60HZ
Grounding	Industrial grounding (dedicated grounding,resistance below100 $\!\Omega)$
Input/Output signal	General signal:16 input,16 output
Position control method	Serial communication EtherCAT.TCP/IP
Memory capacity	JOB: 200000 steps,10000 robot commands (total 200M)
LAN(Host link)	Ethercat(1pc) TCP/IP(1pc)
Control mode	Servo position control
Ambient temperature	In use:0~ + 45°C,In storage: − 20~ + 60°C
Driver unit	AC servo system (6-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

Serial port I/F

RS485(1pc) RS422(1pc) RS232(1pc) CAN(1pc) USB(1pc)

Altitude

Below 1000m. Derate 1% for every additional 100m if over 1000m. Maximum 2000m.

Others

No dust, cutting fluid (including coolant), organic solvent, oil smoke, water, salt, medicine, anti-rust oil, strong microwave, ultraviolet light, X-ray, radiation exposure

Teach pendent

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Specifications	
External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED,640*480 pixels
Protection class	IP54
Cable Length	Standard:5m Optional:15m

Manipulator

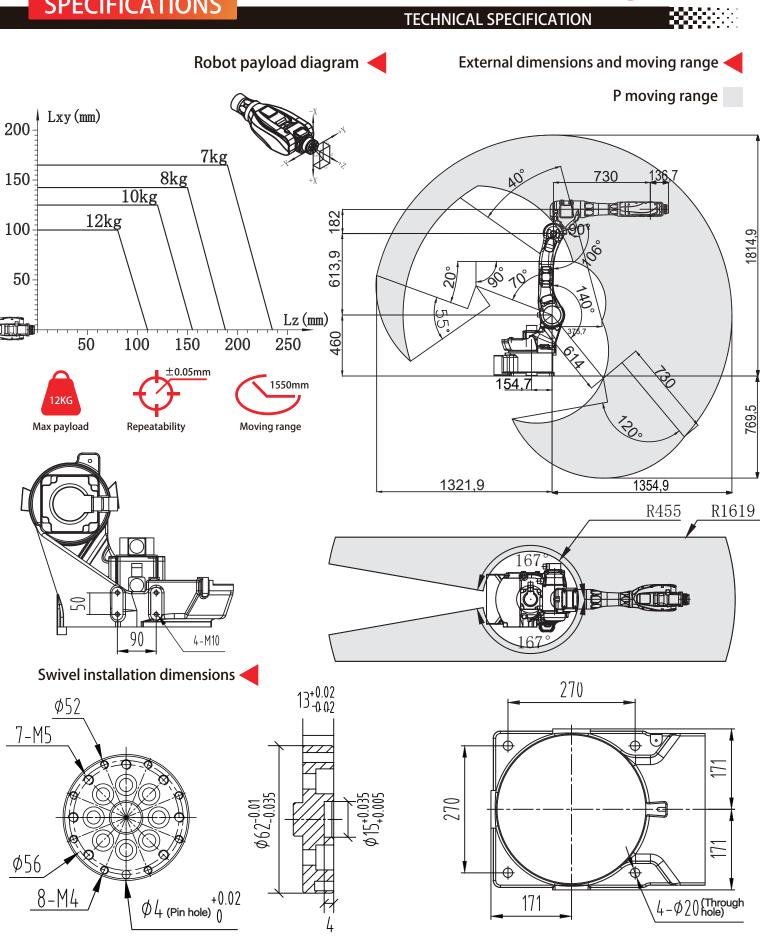
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End flange installation dimensions(Waterproof)

Base installation dimensions





PAYLOAD: 80KG

Number of axis	6-axis	Maximum speed		Moving range
Motion radius	2250mm	J1 axis S	216°/s	±165°
Power capacity	19.0KVA	J2 axis L	150°/s	+90° ~-120°
Max Payload	80KG	J3 axis U	175°/s	+140° ~-70°
Protection class	IP56/IP67	J4 axis R	378°/s	±190°
Repeatability ±0.08mm		J5 axis B	286°/s	+30° ~-210°
Robot mass 678KG J6 axis		J6 axis T	370/s	±360°
Built-in air tube	Built-in air tube Φ8/Φ10 J4 axis R(N.m)		1)	210
Input/Output signals Star	dard 16 in/16 out 24 VDC	J5 axis B(N.m)		210
Mounting position	Floor/frame/ceiling	J6 axis T(N.m)		130



TECHNICAL SPECIFICATION

Installation Environment

Temperature 0-45° CT Humidity 20~80%RH(no condensing) No corrosive or combustible gas, no water, no splashing No excessive oil or dust

Vibrations Below 4.9M/S2 (0.5G) Altitude Below 1000M Away from electromagnetic source Away from magnetic field

Control cabinet_specifications

•		
Overall	dimension	850(width)*550(depth)*920(height)mm (with protrusions)
Approxi	mate mass	170KG
Cooli	ng method	Natural cooling
Power spe	cifications	3PH AC380V 50/60HZ (with built-in 380V~220V isolated transformer)
	Grounding	Industrial grounding (dedicated grounding, resistance below 100 $\!\Omega)$
Input/Out;	out signal	General signal:16 input,16 output
Position contro	l method	Serial communication EtherCAT.TCP/IP
Memory	capacity	JOB: 200000 steps,10000 robot commands (total 200M)
LAN(Host link)	Ethercat(1pc) TCP/IP(1pc)
Con	trol mode	Servo position control
Ambient ten	perature	In use:0~ + 45 °C,In storage: -20 ~ + 60 °C
C	river unit	AC servo system (6-axis)
Relative	humidity	10%~90%(no condensing)
	Vibrate	Below 0.5G

Serial port I/F

RS485(1pc) RS422(1pc) RS232(1pc) CAN(1pc) USB(1pc)

Altitude

Below 1000m. Derate 1% for every additional 100m if over 1000m. Maximum 2000m.

Others

No dust, cutting fluid (including coolant), organic solvent, oil smoke, water, salt, medicine, anti-rust oil, strong microwave, ultraviolet light, X-ray, radiation exposure

Teach pendent specifications

•	
External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED,640*480 pixels
Protection class	IP54
Cable Length	Standard:5m Optional:15m

Manipulator

Selector, axis operation, value, mode selection with key (teach mode/auto mode/remote mode), emergency stop, enable, USB port etc



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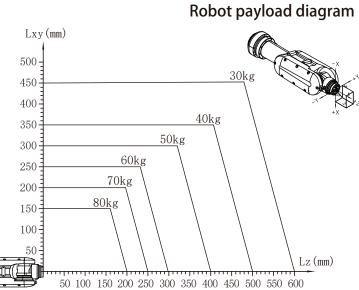
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TECHNICAL SPECIFICATION

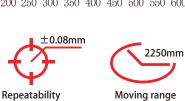


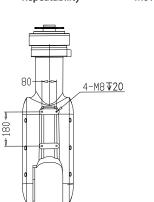


External dimensions and moving range

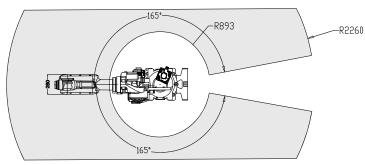
P moving range





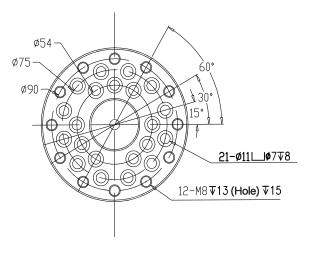


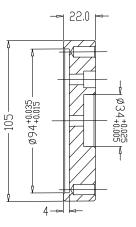
1050 P moving range 880 520 1050 880 1231.7 2265.3 1619.7

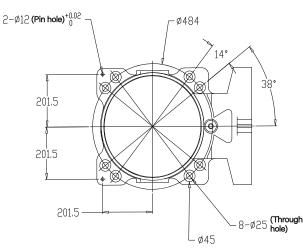


WRIST INSTALLATION DIMENSIONS

Max payload







End flange installation dimensions(Waterproof)

Base installation dimensions





PAYLOAD: 60KG REPEATABILITY: ±0.08mm





Motion ra	Motion radius	
Power cap	Power capacity	
Max Pay	Max Payload	
Protection	Protection class	
Repeatability		±0.08mm
Robot mass		655KG
Built-in air tube		Φ8/Φ10
Input/Output signals	Input/Output signals Standar	
Mounting position	Mounting position Flo	

Number of axis

6-axis

	Maximum speed	Moving range
J1 axis S	214°/s	±160°
J2 axis L	149°/s	+90° ~-120°
J3 axis U	175°/s	+140° ~-70°
J4 axis R	378°/s	±190°
J5 axis B	285°/s	+30° ~-210°
J6 axis T	370/s	±360°
J4 axis R(N.m)	210
J5 axis B(N.m)	210
J6 axis T(N.m)	130



TECHNICAL SPECIFICATION



Installation Environment

Temperature	0-45° CT	Humidity	20~80%RH(no condensing)	No corrosive or combustible gas, no water, no splashing	No excessive oil or dust
Vibrations	Below 4.9M/S2	(0.5G)	Altitude	Below 1000M	Away from electromagnetic source	Away from magnetic field

Control cabinet_specifications

Overall dimension	850(width)*550(depth)*920(height)mm (with protrusions)
Approximate mass	170KG
Cooling method	Natural cooling
Power specifications	3PH AC380V 50/60HZ (with built-in 380V~220V isolated transformer)
Grounding	Industrial grounding (dedicated grounding,resistance below100 $\!\Omega)$
Input/Output signal	General signal:16 input,16 output
Position control method	Serial communication EtherCAT.TCP/IP
Memory capacity	JOB: 200000 steps,10000 robot commands (total 200M)
LAN(Host link)	Ethercat(1pc) TCP/IP(1pc)
Control mode	Servo position control
Ambient temperature	In use:0~ + 45 °C,In storage: – 20 ~ + 60 °C
Driver unit	AC servo system (6-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

Serial port I/F

RS485(1pc) RS422(1pc) RS232(1pc) CAN(1pc) USB(1pc)

Altitude

Below 1000m. Derate 1% for every additional 100m if over 1000m. Maximum 2000m.

Others

No dust, cutting fluid (including coolant), organic solvent, oil smoke, water, salt, medicine, anti-rust oil, strong microwave, ultraviolet light, X-ray, radiation exposure

Teach pendent specifications

specifications	
External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED,640*480 pixels
Protection class	IP54
Cable Length	Standard:5m Optional:15m

Manipulator

Selector, axis operation, value, mode selection with key (teach mode/auto mode/remote mode), emergency stop, enable, USB port etc



Please read the user manual and relevant documentations before use.

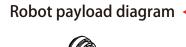
Contact official staff or distributor of MOKA if there are any errors, faults or if the robot is a harm to human safety.

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.



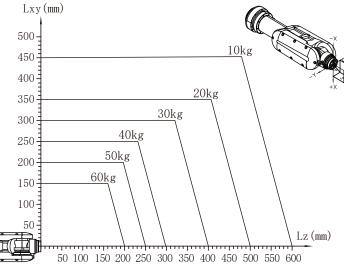
TECHNICAL SPECIFICATION



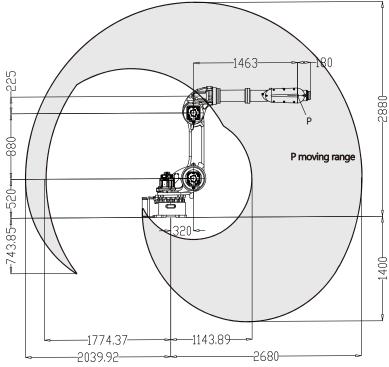


External dimensions and moving range

P moving range



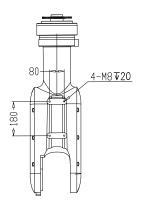




Max payload

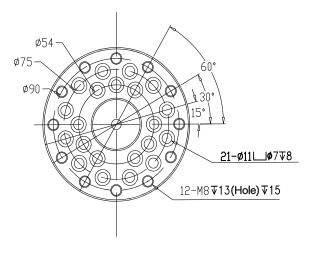


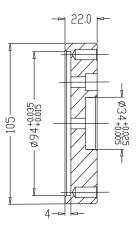


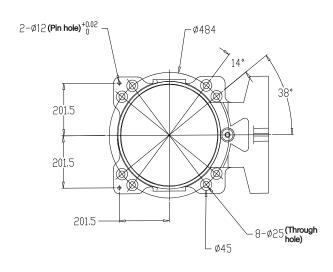


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WRIST INSTALLATION DIMENSIONS



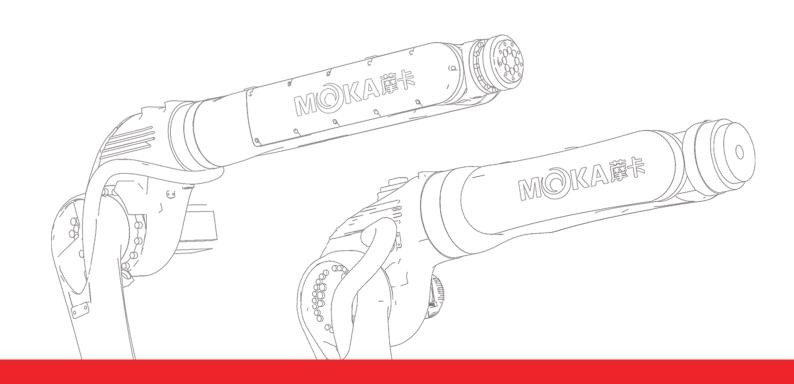




End flange installation dimensions(Waterproof)

Base installation dimensions







Committed to providing customers with the most valuable products

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