

Higher Precision



Higher Protection Level(IP67)



Higher Speed



Better Price Performance



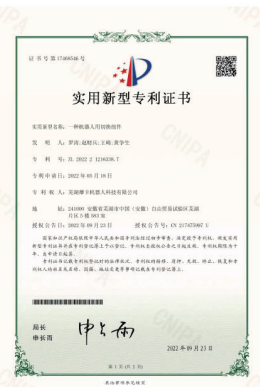
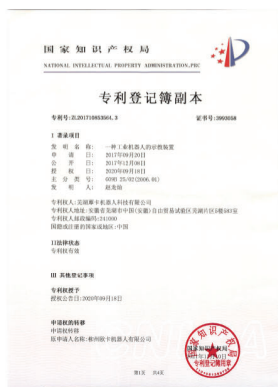
Moka Robot is a high-tech robot manufacturer providing high quality industrial robots and solutions to our customers. As one of the earliest companies who manufactures industrial robots, we offer professional, timely service and complete robot application solutions.

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





MB04SC-300



MB04SC-400



MB10SC-500



MB10SC-600



MB10SC-700



MB25SC-800



MB25SC-900



MB25SC-1000



MB04S-580



MB10S-740



MB10S-920



MB20-2100



MB35-1870



MB45-1870



MB180-3200



MB210-2650



MB280-2650



MR10C-1488



MR30C-1750



MR10W-1440-D



MR12-2010



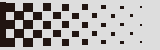
MR12Z-1550



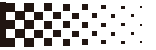
MR80E-2250



MR60E-2680



Number of axis	4-axis		Maximum speed	Moving range
Motion radius	300mm	J1 axis S	J1+J2 5950mm/s	±145°
Power capacity	1.5KVA	J2 axis L		±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	Φ6	Mounting position		Floor/frame/ceiling



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

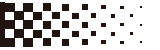
Manipulator	Selector, axis operation, value, mode selection with key (teach mode/auto mode/remote mode), emergency stop, enable, USB port etc
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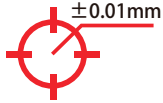
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SPECIFICATIONS

TECHNICAL SPECIFICATION



Max payload



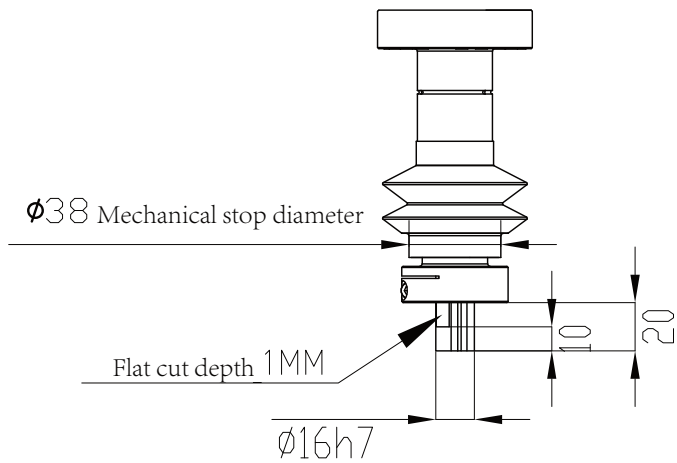
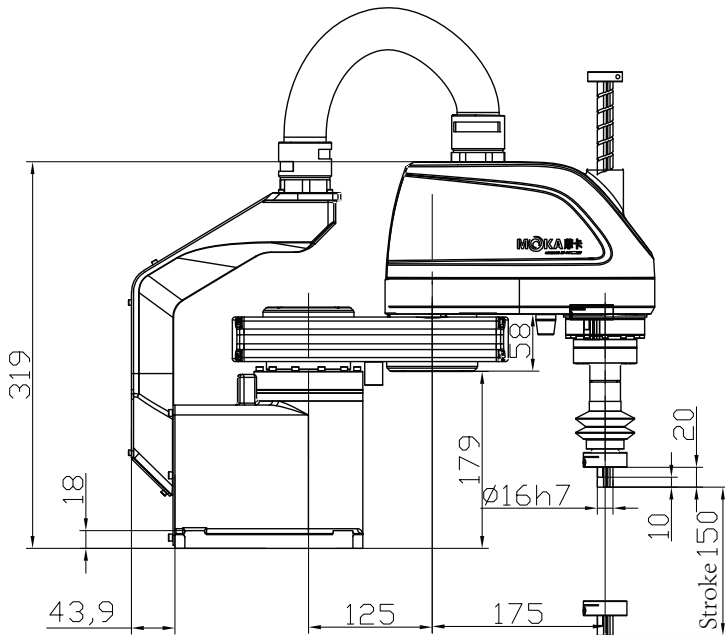
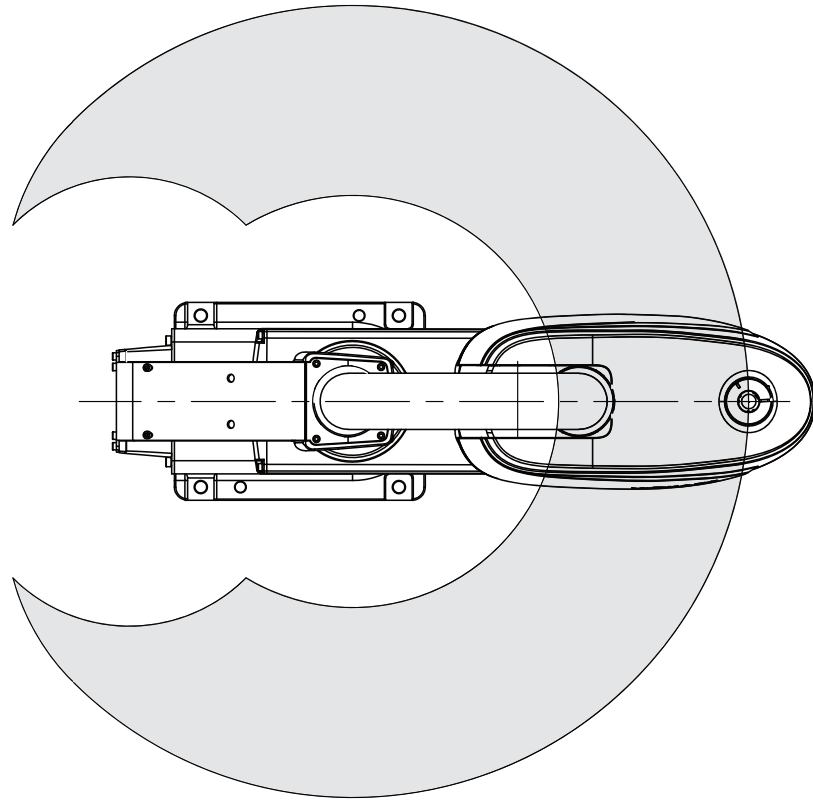
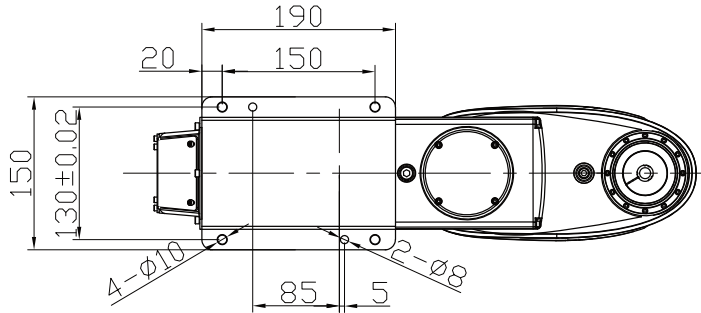
Repeatability



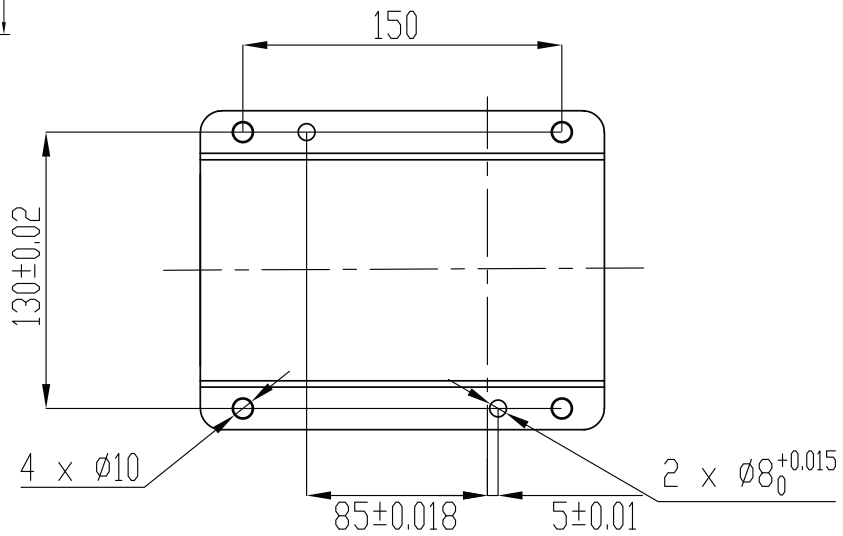
Moving range

External dimensions and moving range

P moving range



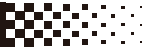
End flange installation dimensions



Base installation dimensions



Number of axis	4-axis		Maximum speed	Moving range
Motion radius	300mm	J1 axis S	J1+J2 7200mm/s	$\pm 145^\circ$
Power capacity	1.5KVA	J2 axis L		$\pm 145^\circ$
Max payload	Rated 1KG/Max 4KG	J3 axis U	1200mm/s	150mm
Repeatability	$\pm 0.01\text{mm}$	J4 axis R	880°/s	$\pm 360^\circ$
Robot mass	15KG	Input/Output signals		Standard 16 in/16 out 24 VDC
Built-in air tube	$\Phi 6$	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 100Ω)
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

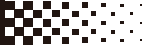


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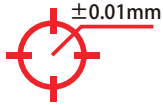
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SPECIFICATIONS

TECHNICAL SPECIFICATION



Max payload



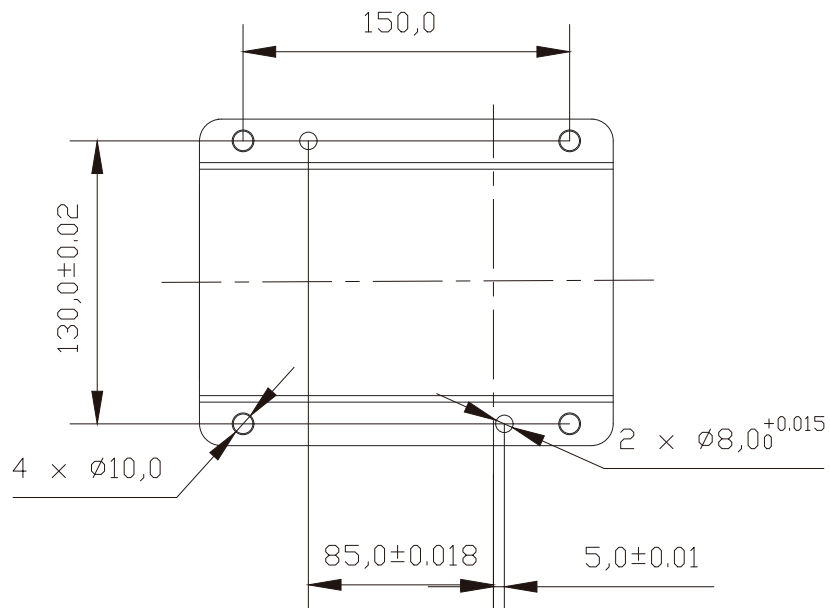
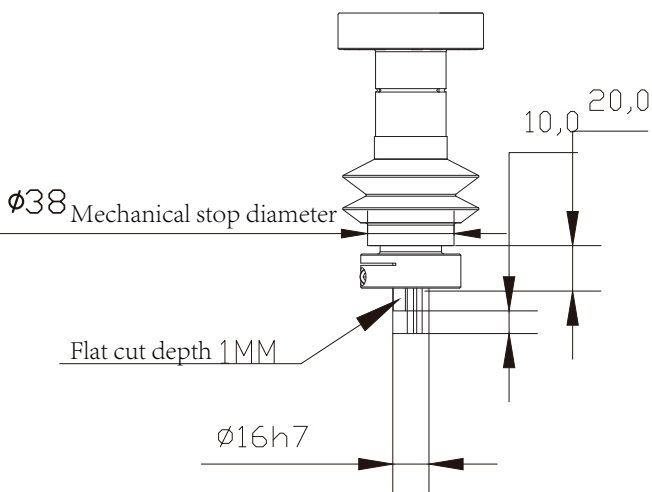
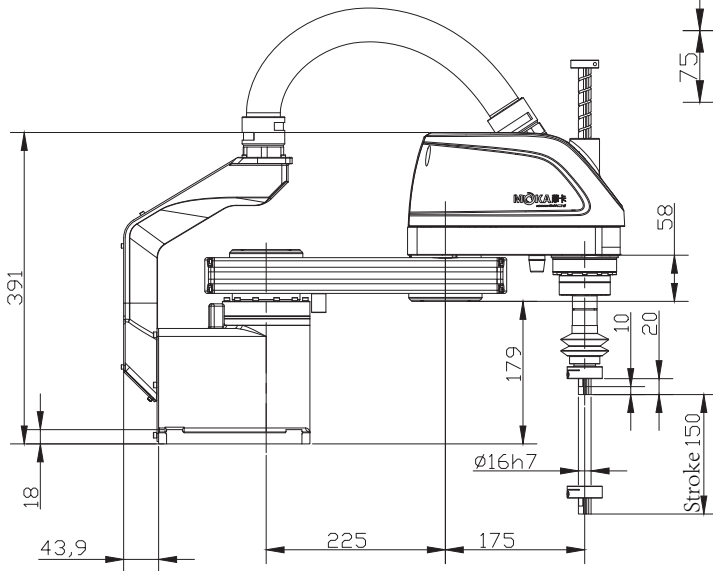
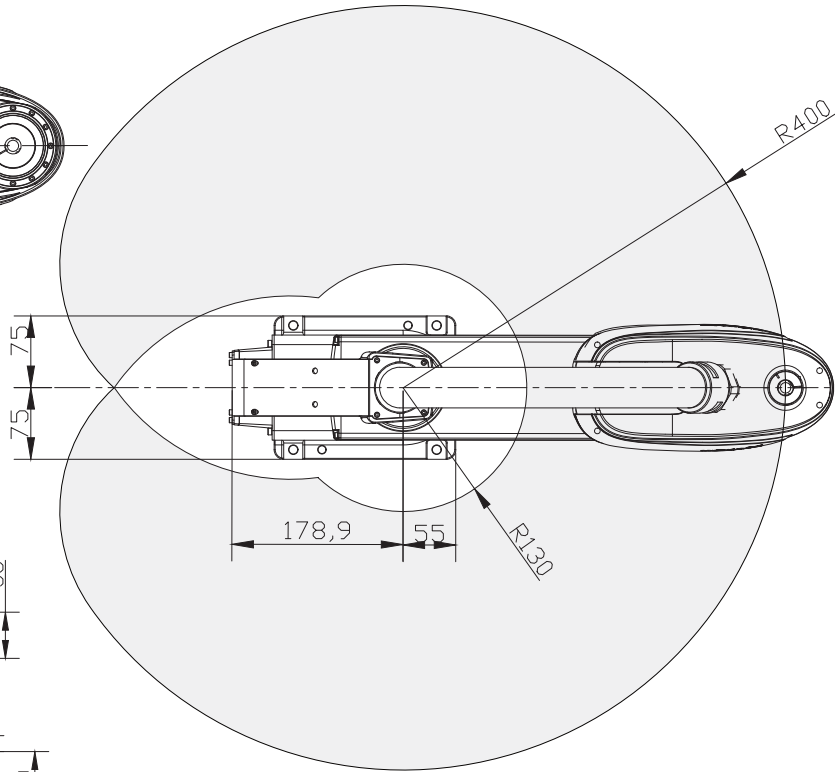
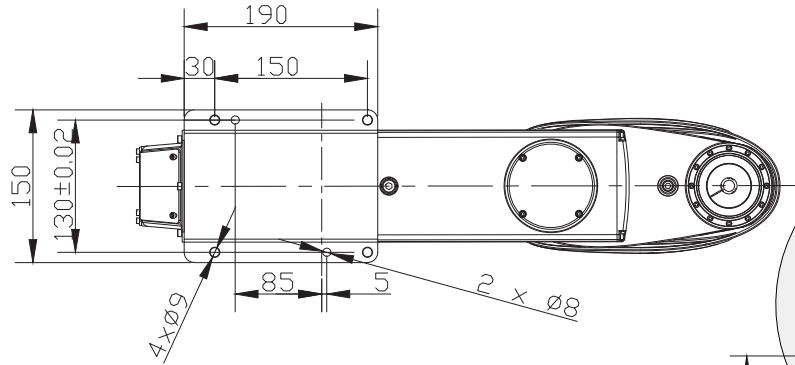
Repeatability



Moving range

External dimensions and moving range ◀

P moving range ◻



End flange installation dimensions ◀

Base installation dimensions ◀



Number of axis	4-axis		Maximum speed	Moving range
Motion radius	500mm	J1 axis S	J1+J2	$\pm 135^\circ$
Power capacity	2.0KVA	J2 axis L	7380mm/s	$\pm 145^\circ$
Max payload	Rated 5KG/Max 10KG	J3 axis U	1100mm/s	200mm
Repeatability	$\pm 0.02\text{mm}$	J4 axis R	880°/s	$\pm 360^\circ$
Robot mass	24KG	Input/Output signals		Standard 16 in/16 out 24 VDC
Built-in air tube	$\Phi 6$	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 below100Ω)
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

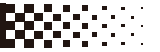


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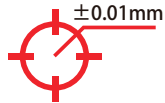
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SPECIFICATIONS

TECHNICAL SPECIFICATION



Max payload



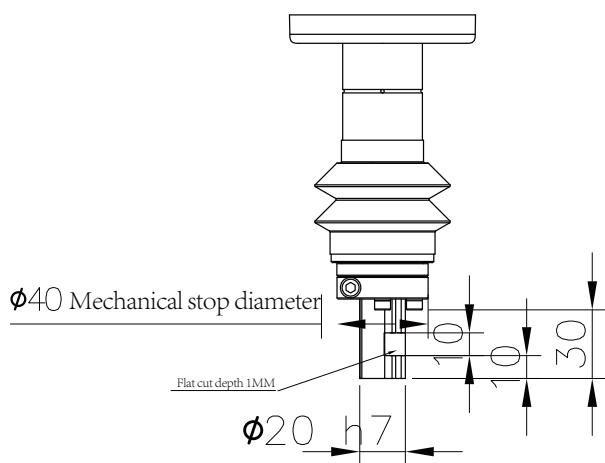
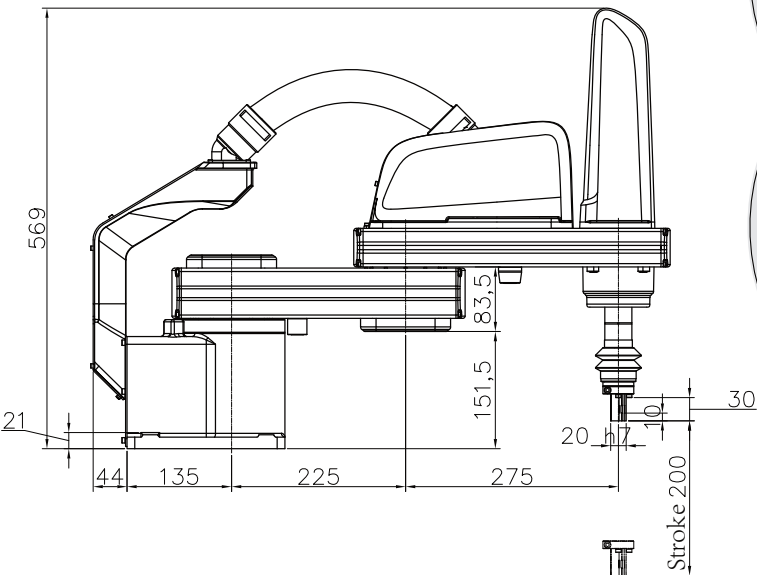
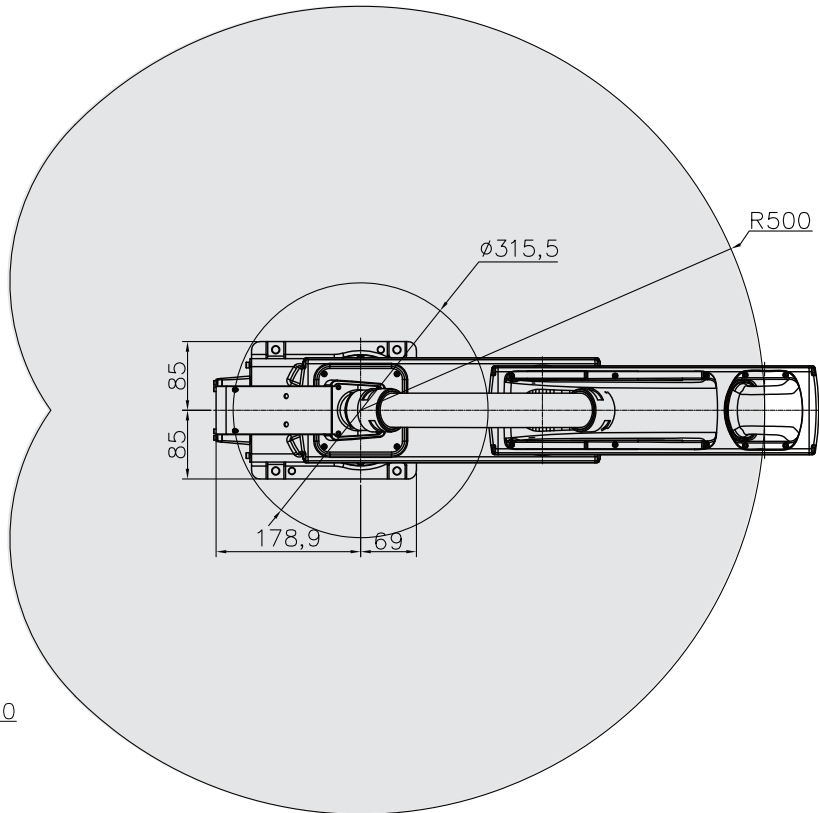
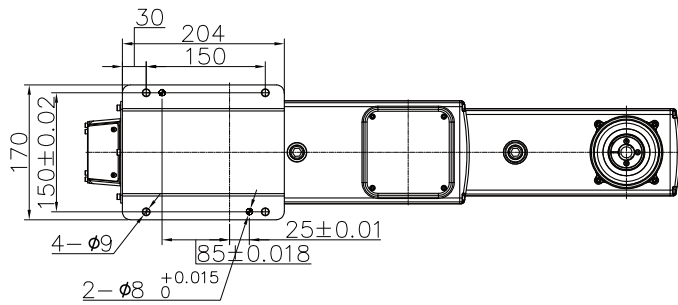
Repeatability



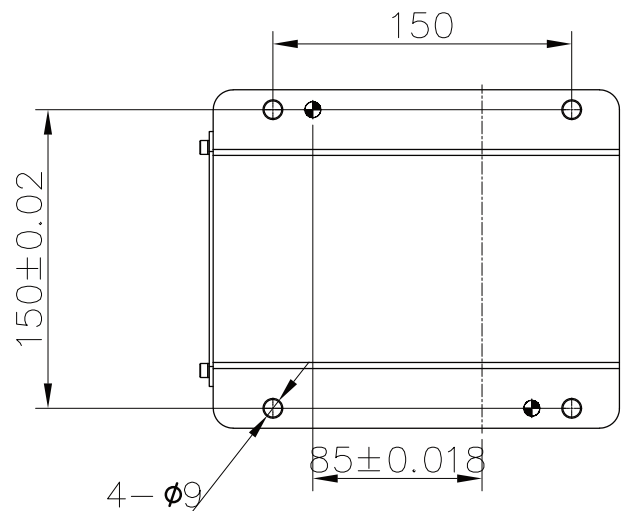
Moving range

External dimensions and moving range ◀

P moving range ◻



End flange installation dimensions ◀



Base installation dimensions ◀

MB10SC-600

PAYLOAD: 5-10KG REPEATABILITY: ±0.02mm



28KG

Number of axis	4-axis	Maximum speed	Moving range
Motion radius	600mm	J1 axis S	±135°
Power capacity	2.0KVA	J2 axis L	±150°
Max payload	Rated 5KG/Max 10KG	J3 axis U	200mm
Repeatability	±0.02mm	J4 axis R	±360°
Robot mass		Input/Output signals	Standard 16 in/16 out 24 VDC
Built-in air tube	Φ6	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 100Ω)
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)
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Altitude	Below 1000m. Derate 1% for every additional 100m if over 1000m. Maximum 2000m.
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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
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Teach pendent specifications

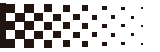
External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED, 640*480 pixels
Protection class	IP54
Cable Length	Standard: 5m Optional: 15m

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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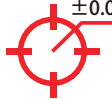
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SPECIFICATIONS

TECHNICAL SPECIFICATION

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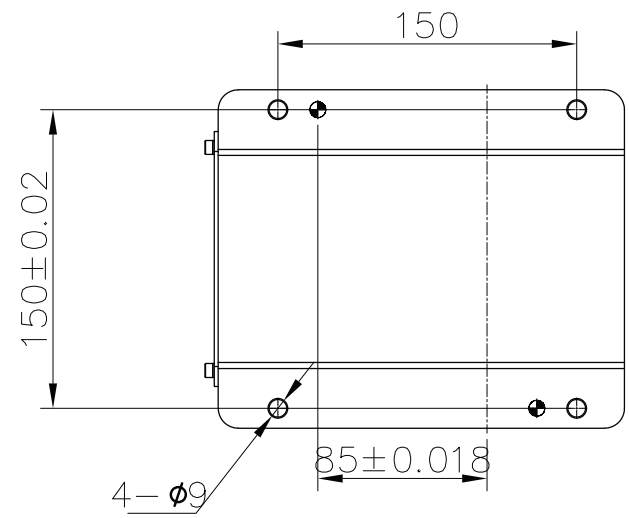
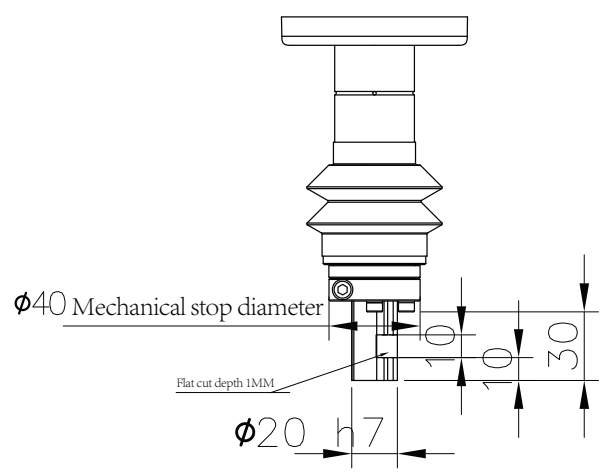
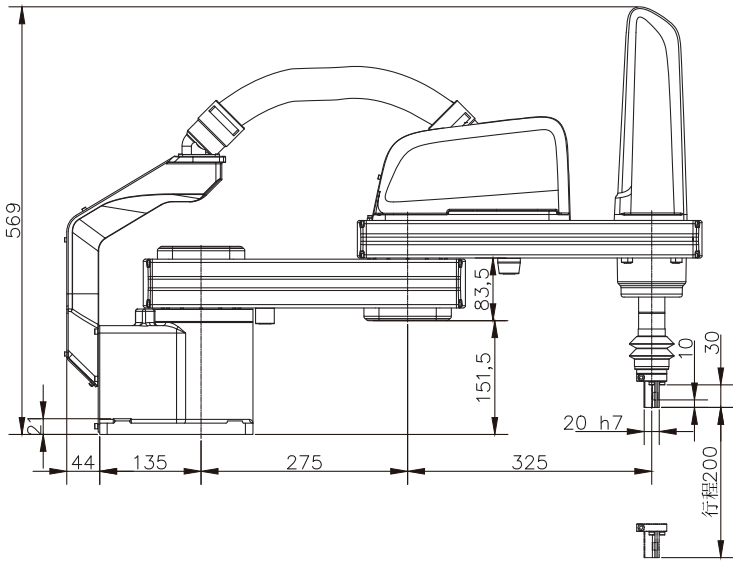
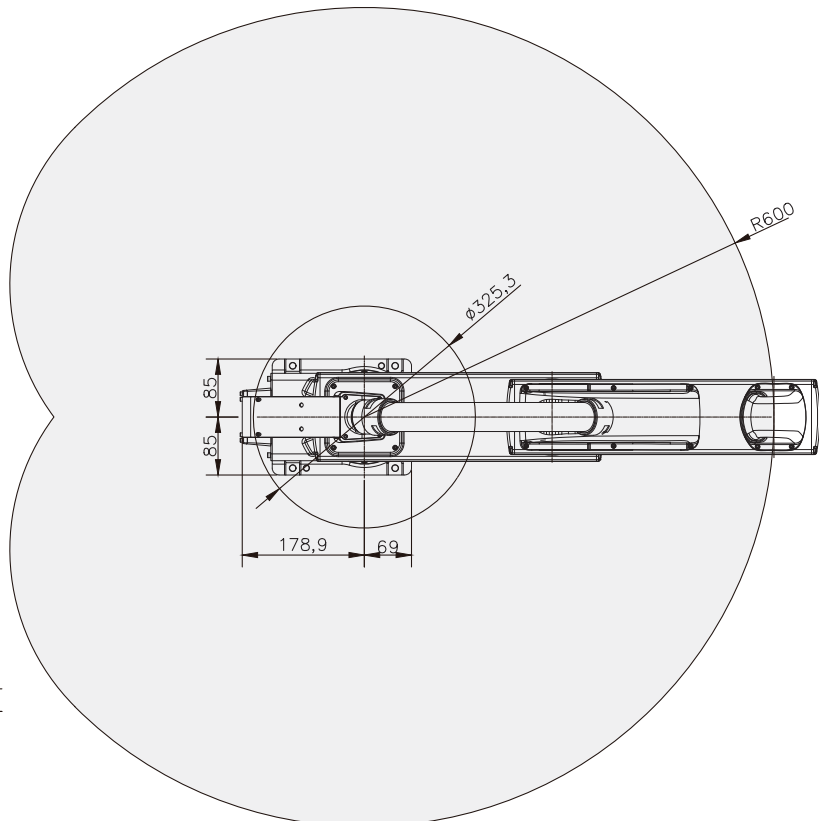
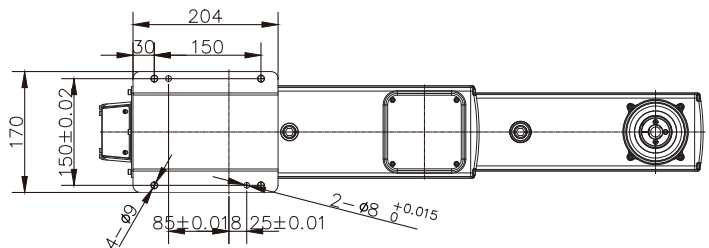
10KG
Max payload
- 

$\pm 0.01\text{mm}$
Repeatability
- 

400mm
Moving range

External dimensions and moving range ◀

P moving range ◻



End flange installation dimensions ◀

Base installation dimensions ◀



Number of axis	4-axis		Maximum speed	Moving range
Motion radius	700mm	J1 axis S	J1+J2	$\pm 135^\circ$
Power capacity	2.0KVA	J2 axis L	9580mm/s	$\pm 150^\circ$
Max payload	Rated 5KG/Max 10KG	J3 axis U	1100mm/s	200mm
Repeatability	$\pm 0.02\text{mm}$	J4 axis R	880°/s	$\pm 360^\circ$
Robot mass	29KG	Input/Output signals		Standard 16 in/16 out 24 VDC
Built-in air tube	$\Phi 6$	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 below100Ω)
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)
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Altitude	Below 1000m. Derate 1% for every additional 100m if over 1000m. Maximum 2000m.
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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
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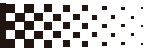
Teach pendent specifications

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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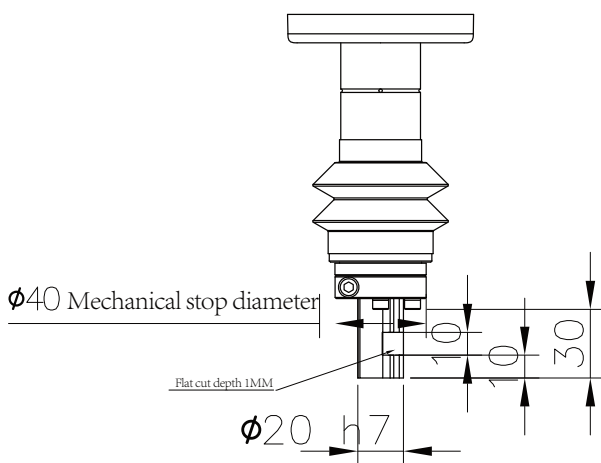
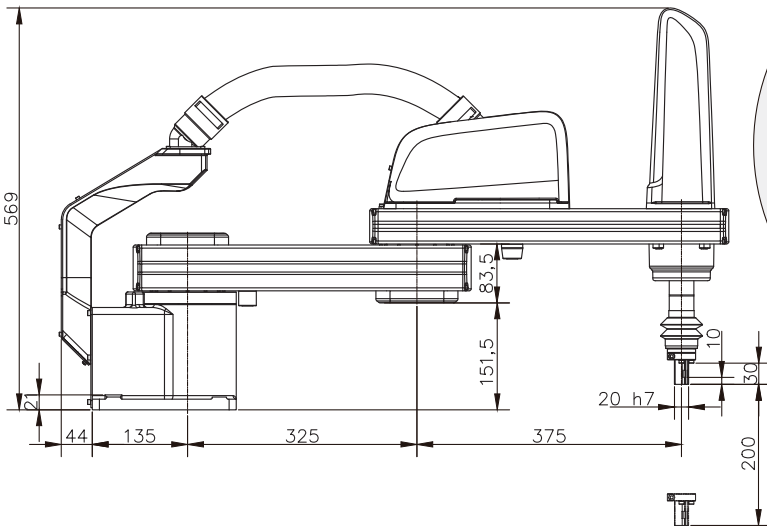
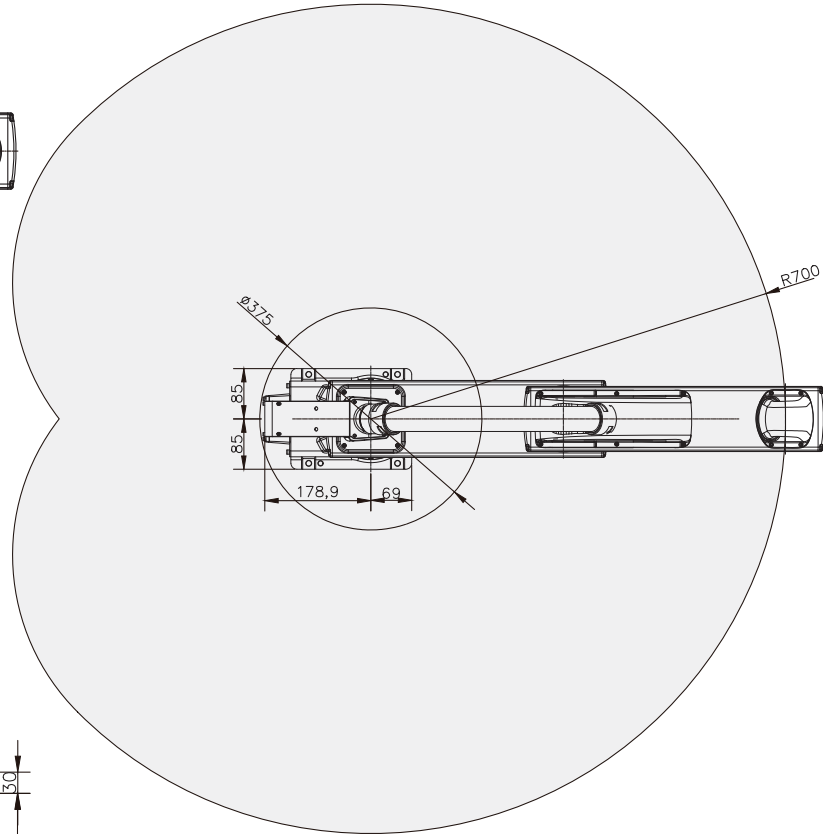
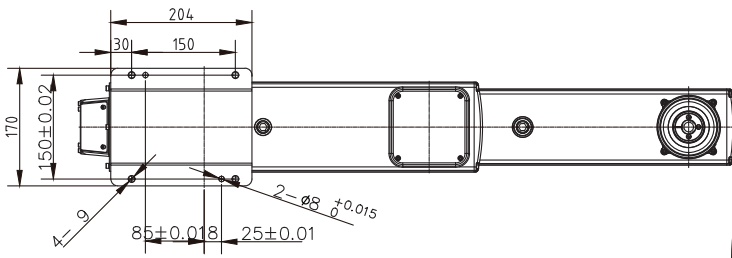
10KG
Max payload

$\pm 0.01\text{mm}$
Repeatability

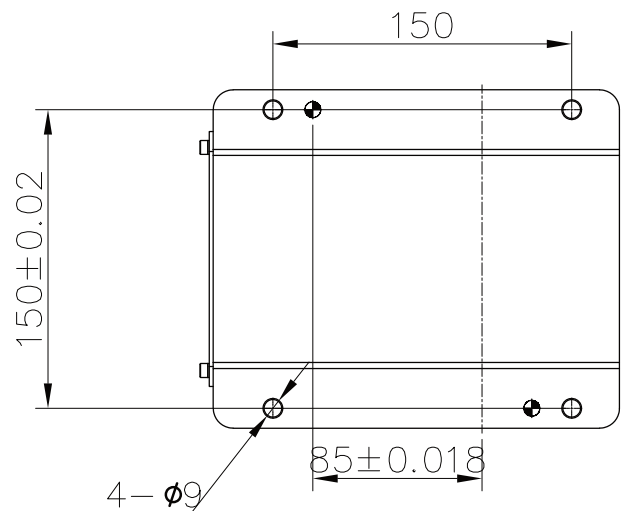
400mm
Moving range

External dimensions and moving range

P moving range



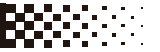
End flange installation dimensions



Base installation dimensions



Number of axis	4-axis		Maximum speed	Moving range
Motion radius	800mm	J1 axis S	J1+J2 9210mm/s	±135°
Power capacity	2.0KVA	J2 axis L		±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	Φ8	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 100Ω)
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)
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Altitude	Below 1000m. Derate 1% for every additional 100m if over 1000m. Maximum 2000m.
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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
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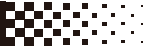
Teach pendent specifications

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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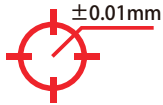


SPECIFICATIONS

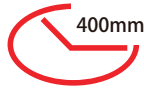
TECHNICAL SPECIFICATION



25KG
Max payload



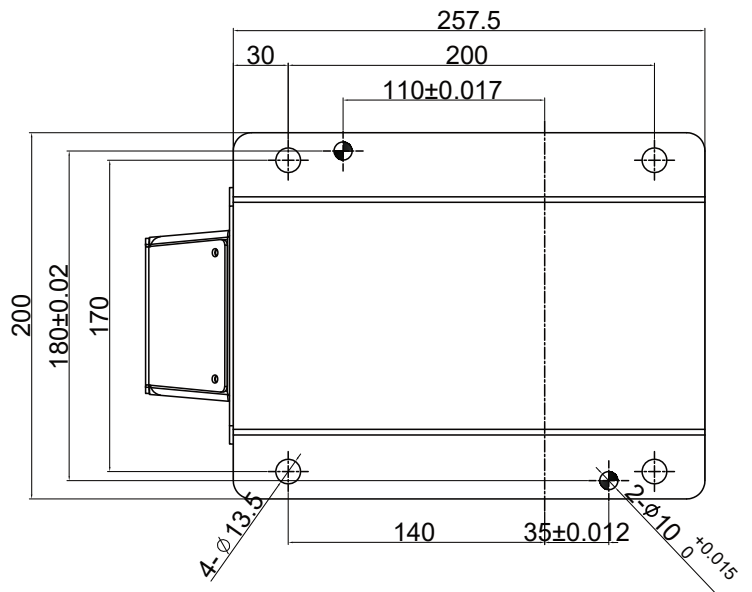
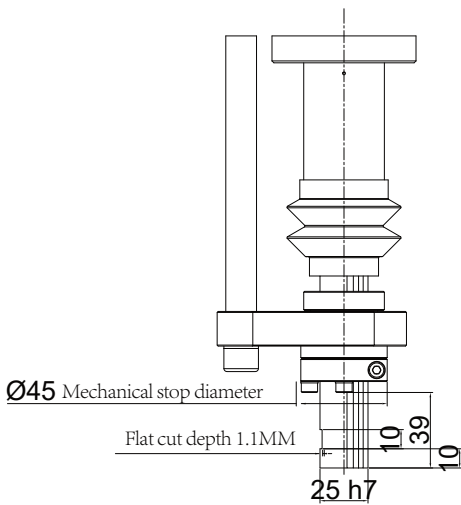
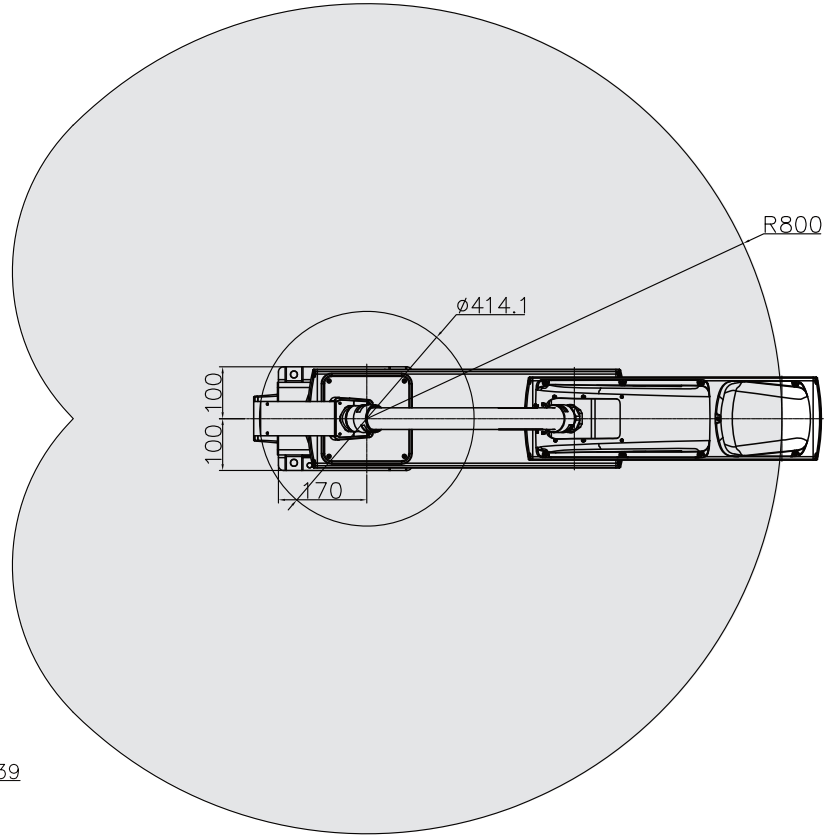
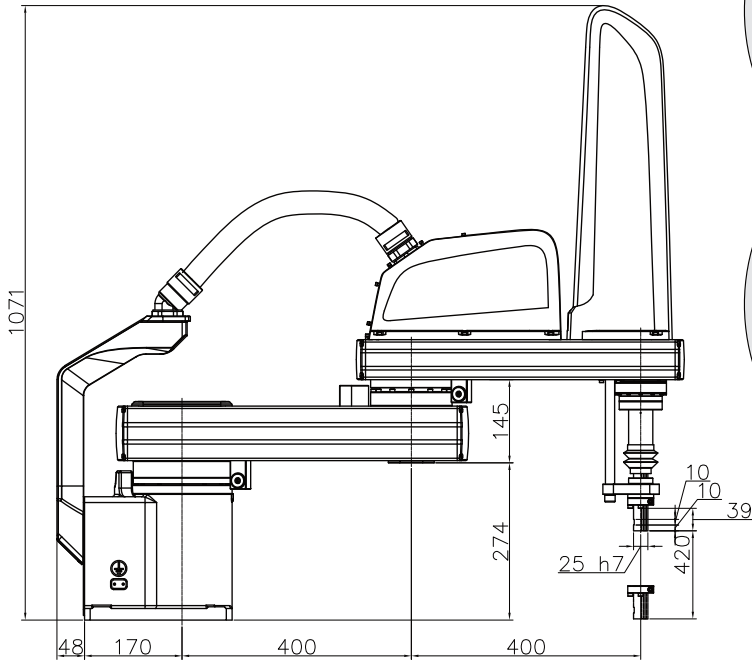
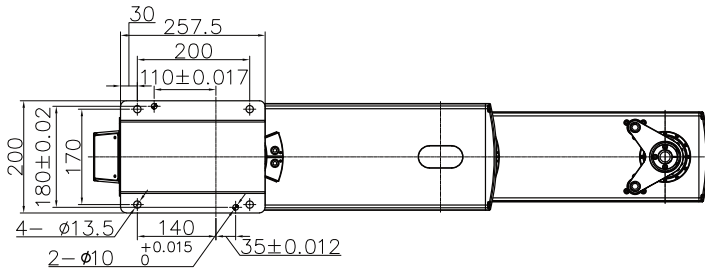
$\pm 0.01\text{mm}$
Repeatability



400mm
Moving range

External dimensions and moving range

P moving range

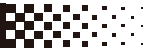


End flange installation dimensions

Base installation dimensions



Number of axis	4-axis		Maximum speed	Moving range
Motion radius	900mm	J1 axis S	J1+J2 10360mm/s	±135°
Power capacity	3.0KVA	J2 axis L		±150°
Max payload	Rated 10KG/Max 25KG	J3 axis U	2020mm/s	420mm
Repeatability	±0.025mm	J4 axis R	720°/s	±360°
Robot mass	64.5KG	Input/Output signals		Standard 16 in/16 out 24 VDC
Built-in air tube	Φ8	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 below100Ω)
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

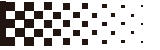
External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED,640*480 pixels
Protection class	IP54
Cable Length	Standard:5m Optional:15m

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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SPECIFICATIONS

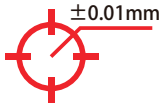
TECHNICAL SPECIFICATION

External dimensions and moving range

P moving range



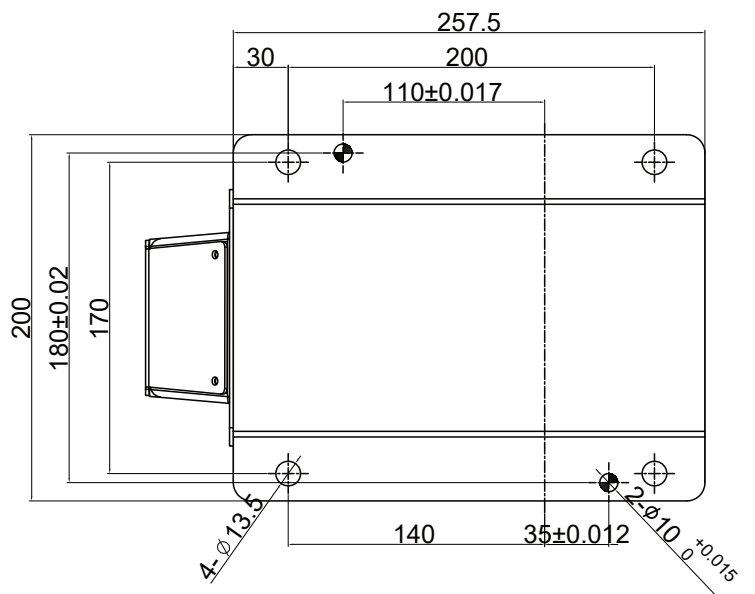
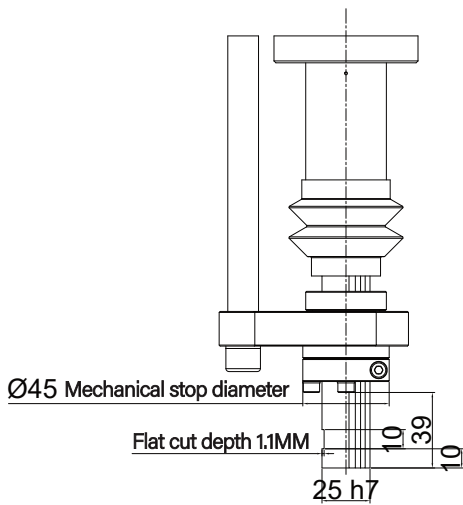
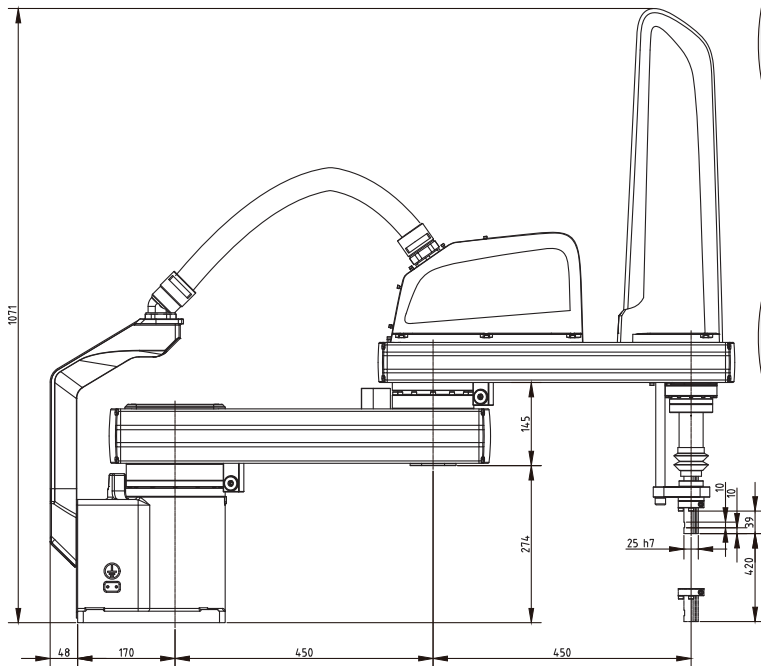
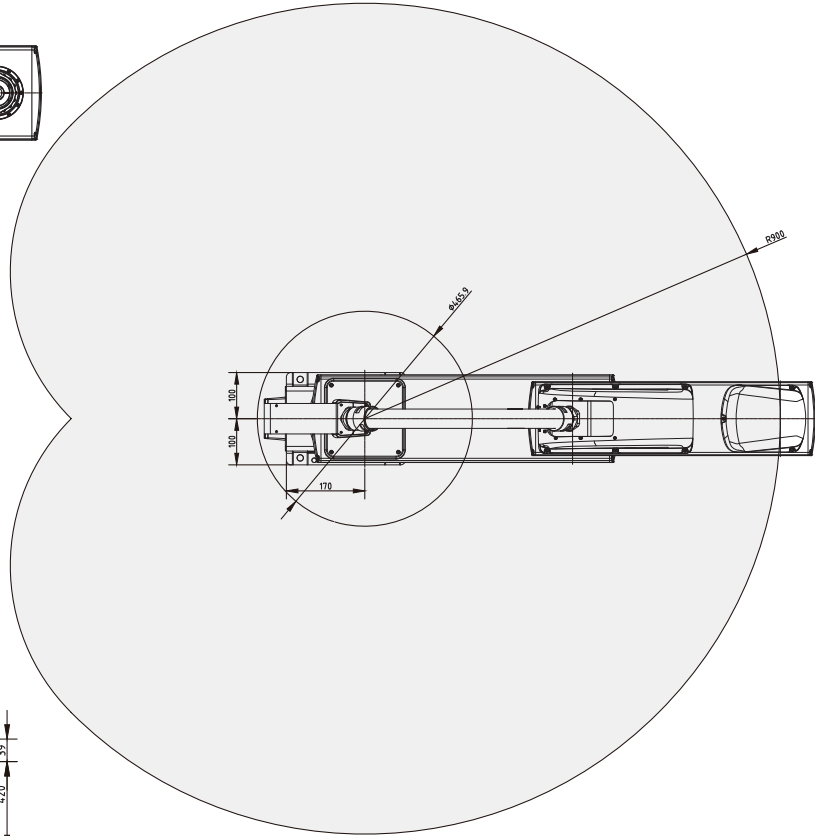
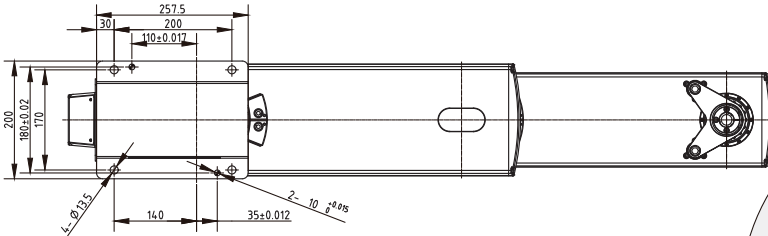
Max payload



Repeatability



Moving range



End flange installation dimensions

Base installation dimensions



Number of axis	4-axis		Maximum speed	Moving range
Motion radius	1000mm	J1 axis S	J1+J2	±135°
Power capacity	3.0KVA	J2 axis L	11520mm/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	66KG	Input/Output signals		Standard 16 in/16 out 24 VDC
Built-in air tube	Ø8	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 below100Ω)
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

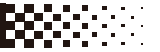
External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED,640*480 pixels
Protection class	IP54
Cable Length	Standard:5m Optional:15m

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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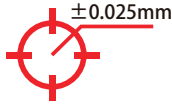


SPECIFICATIONS

TECHNICAL SPECIFICATION



Max payload



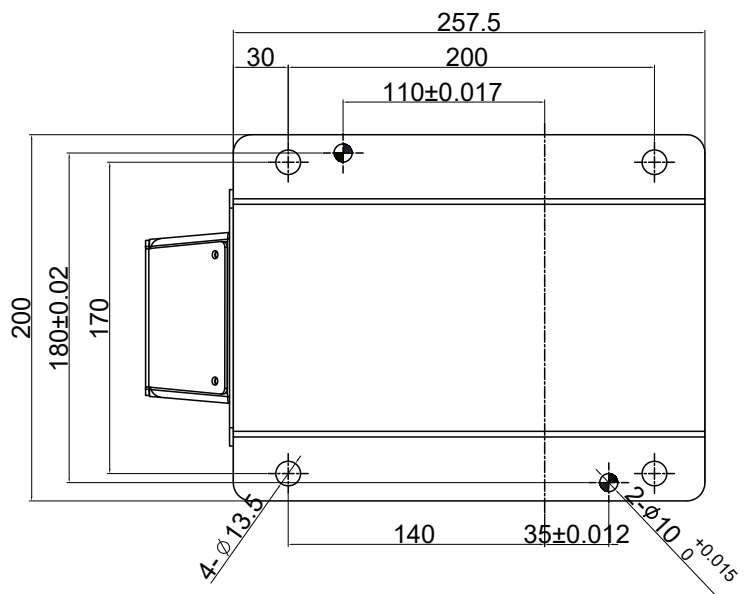
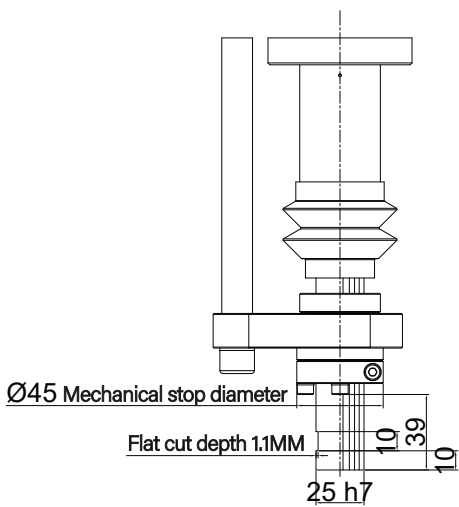
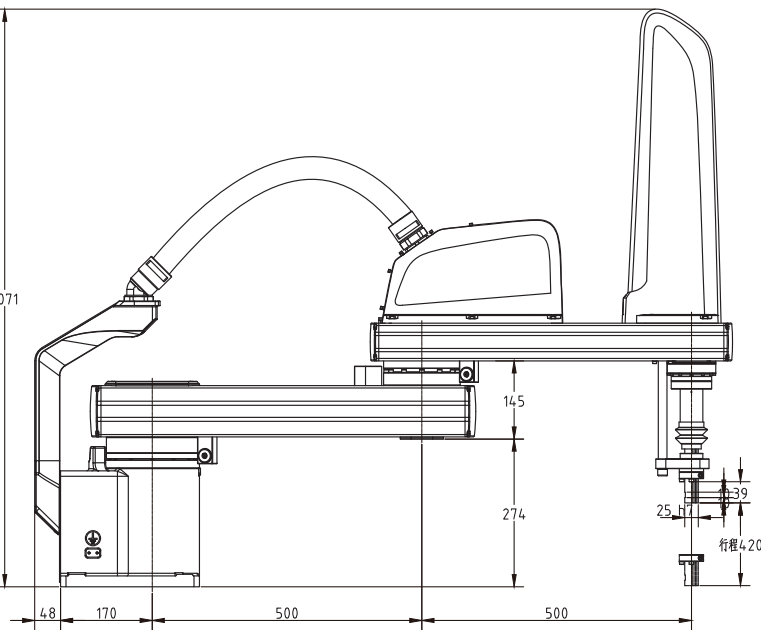
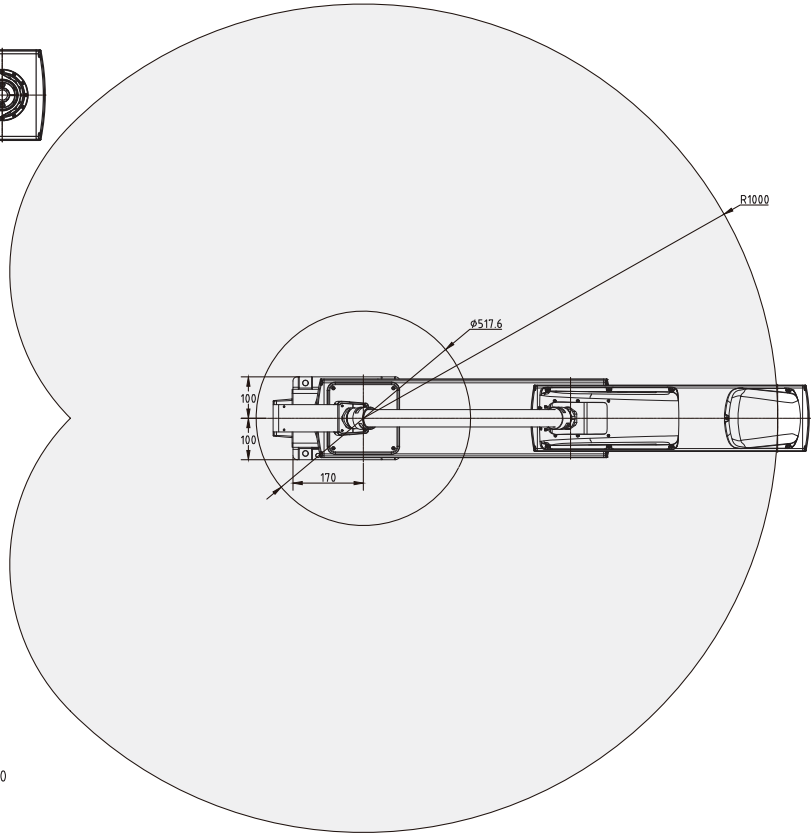
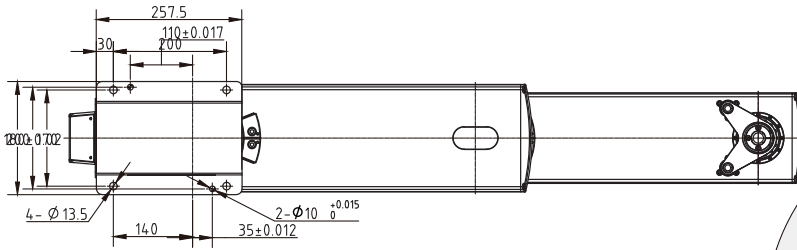
Repeatability



Moving range

External dimensions and moving range

P moving range

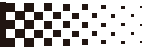


End flange installation dimensions

Base installation dimensions



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	Φ6	J6 axis T	880°/s	±360°
Protection class	IP67	Input/Output signals	Standard 16 in/16 out 24 VDC	
		Mounting position	Floor/frame/ceiling	



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 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 below 100Ω)
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 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: 8m/10m/15m

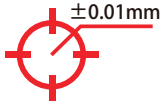
manipulator	Selector, axis operation, value, mode selection with key (teach mode/auto mode/remote mode), emergency stop, enable, USB port etc
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Max payload



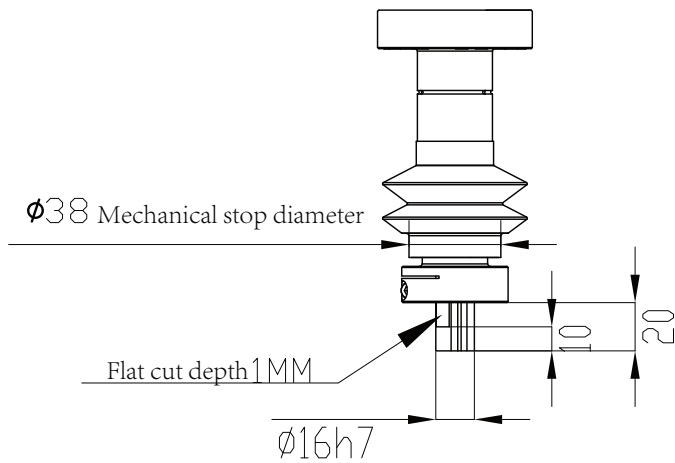
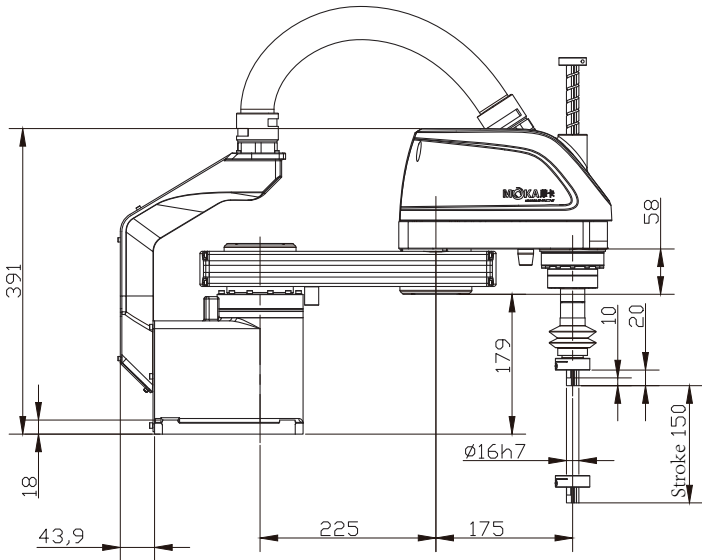
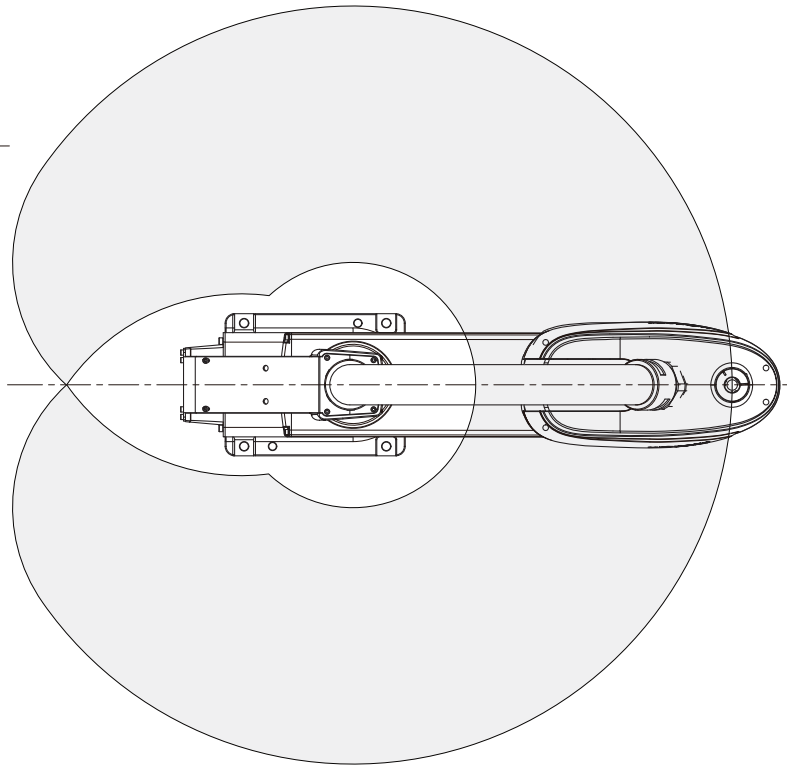
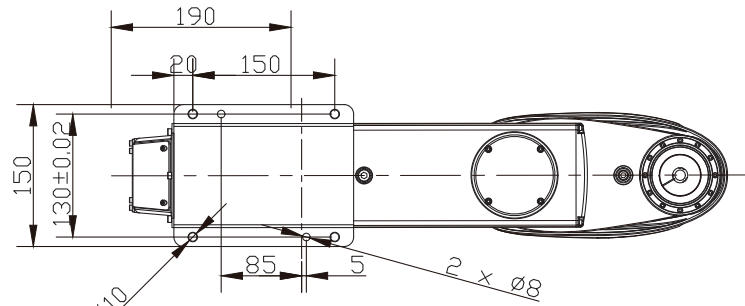
Repeatability



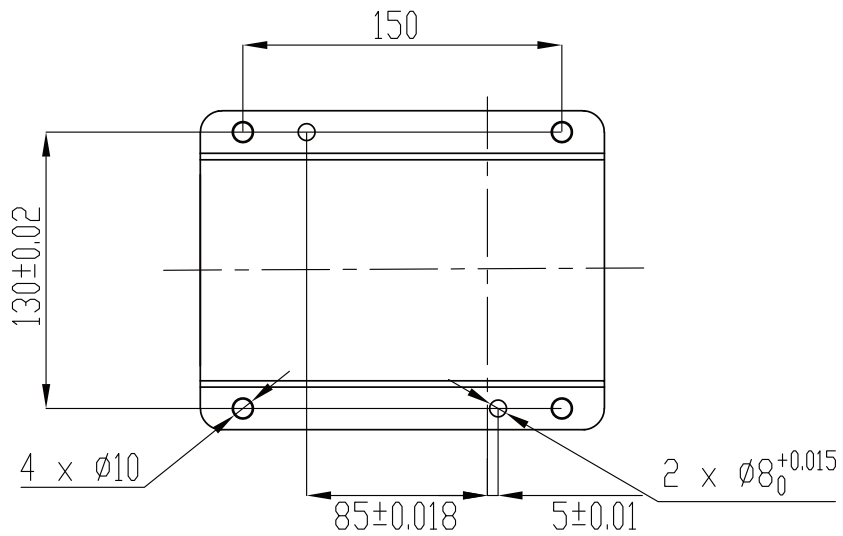
Moving range

External dimensions and moving range

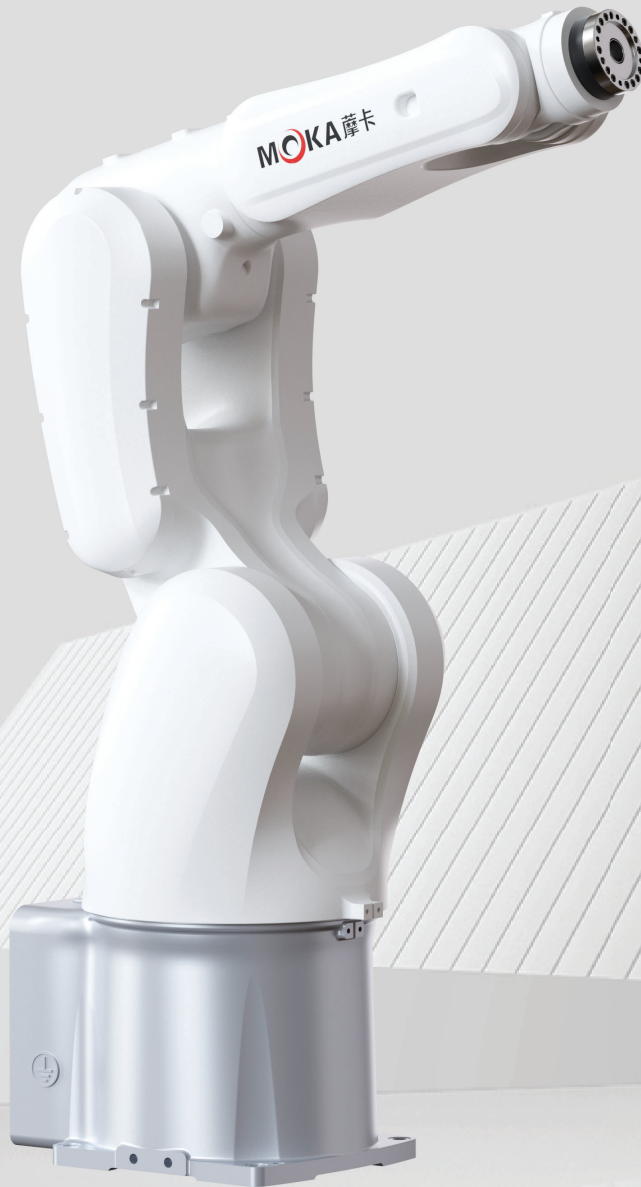
P moving range



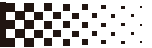
End flange installation dimensions



Base installation dimensions



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



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 100Ω)
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

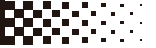
Manipulator

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

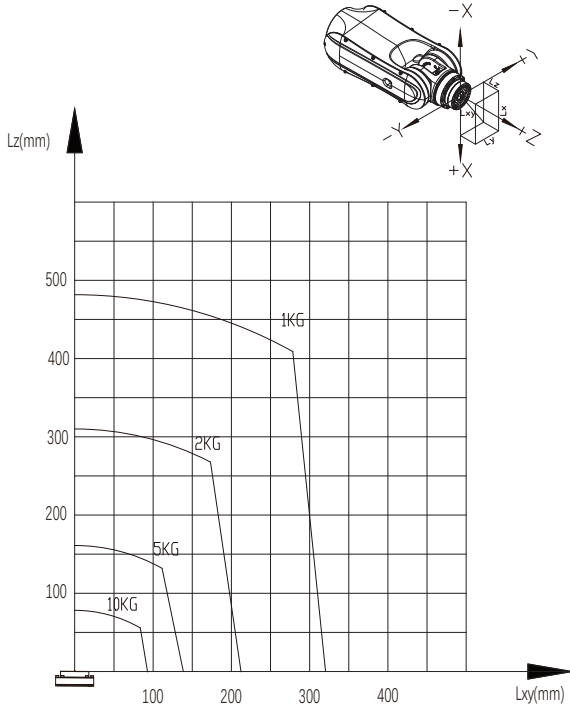


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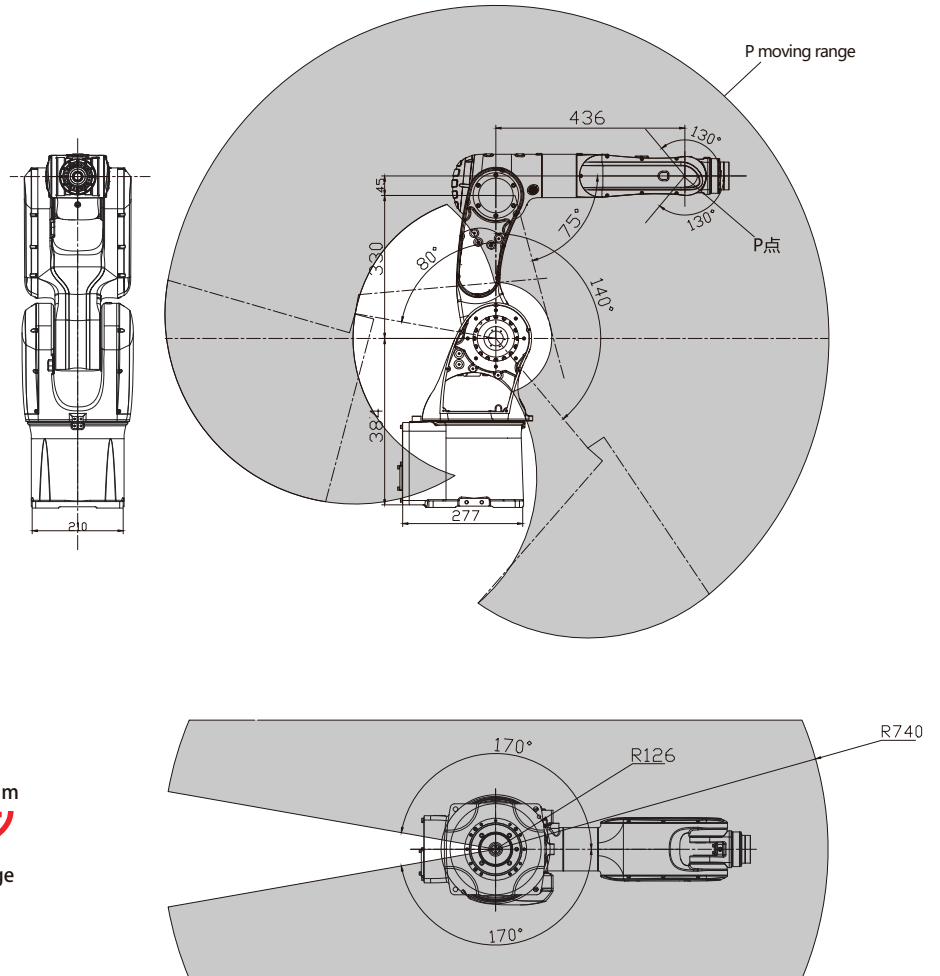


Robot payload diagram

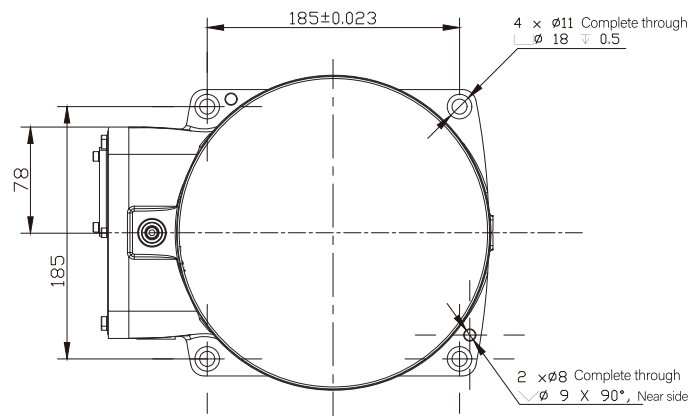
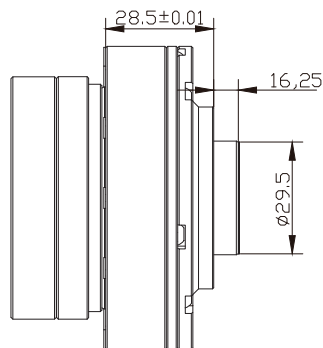
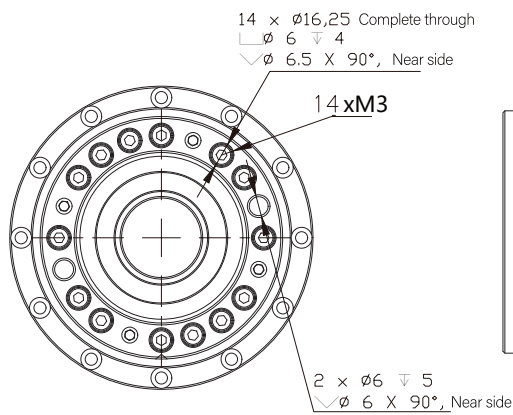


External dimensions and moving range

P moving range

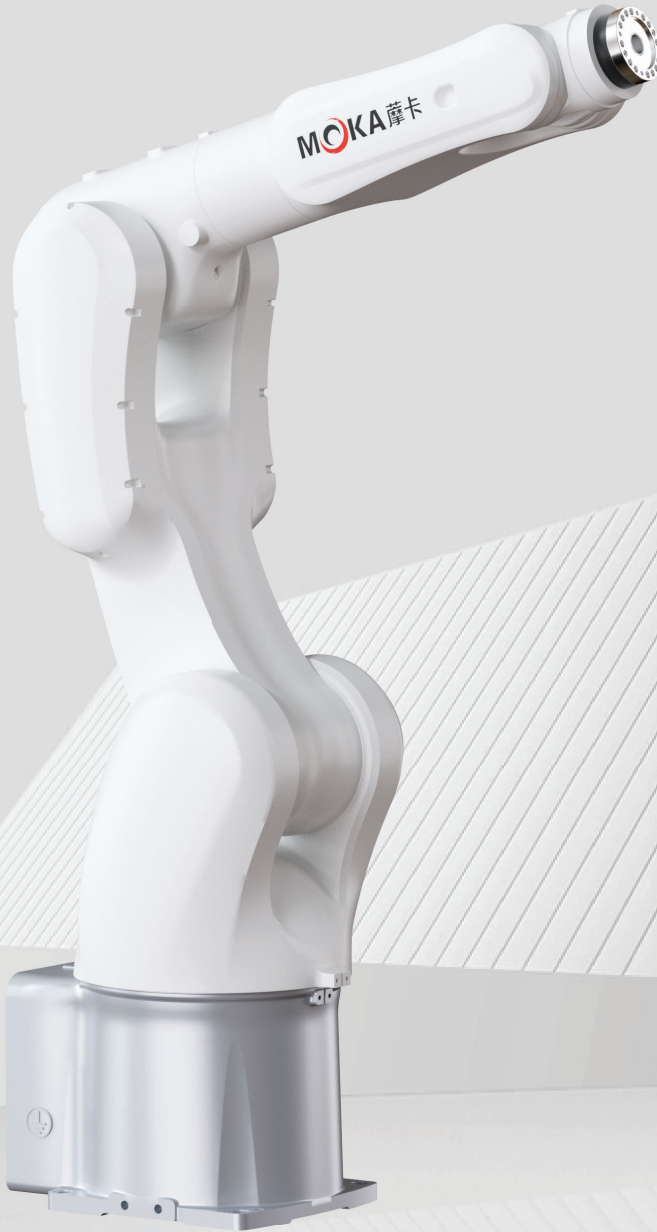
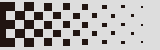


- 10KG**
Max payload
- $\pm 0.01\text{mm}$
Repeatability
- 400mm
Moving range

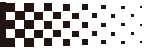


End flange installation dimensions

Base 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	Φ6	J6 axis T	975°/s	±360°
Protection class	IP67	Input/Output signals	Standard 16 in/16 out 24 VDC	
		Mounting position	Floor/frame/ceiling	



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 100Ω)
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)
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Altitude	Below 1000m. Derate 1% for every additional 100m if over 1000m. Maximum 2000m.
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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
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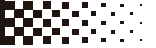
Teach pendent specifications

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

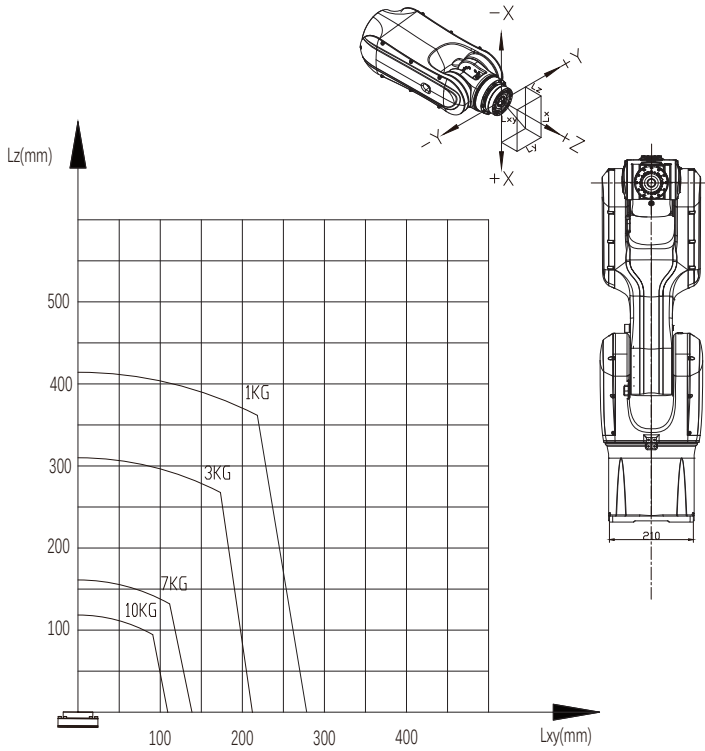
Manipulator	Selector, axis operation, value, mode selection with key (teach mode/auto mode/remote mode), emergency stop, enable, USB port etc
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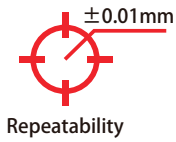
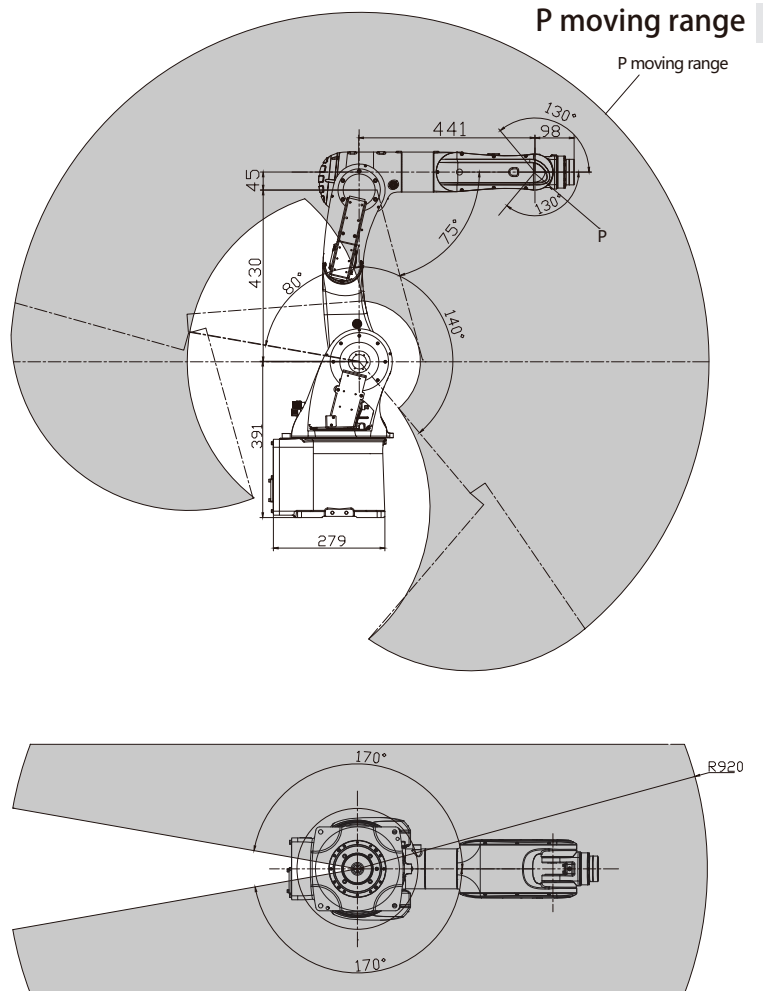
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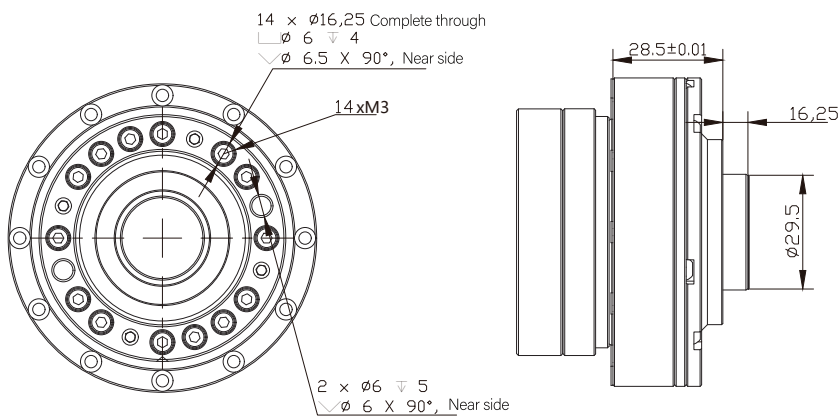
Robot payload diagram ◀



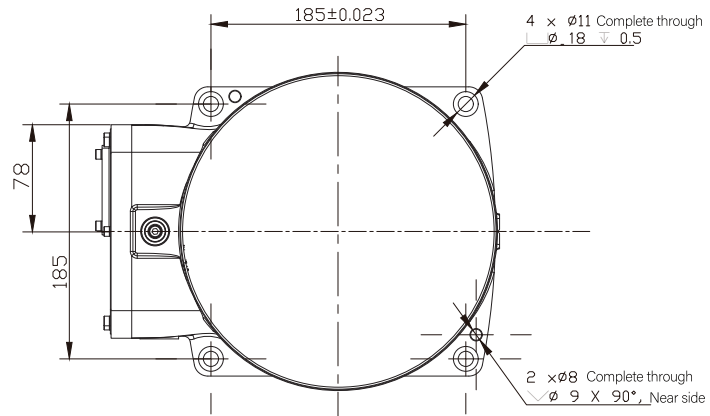
External dimensions and moving range ◀



End flange installation dimensions ◀

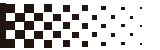


Base installation dimensions ◀





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 tube	Φ8	J4 axis R(N.m)		80
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



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 below 100Ω)
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

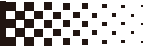
Manipulator

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

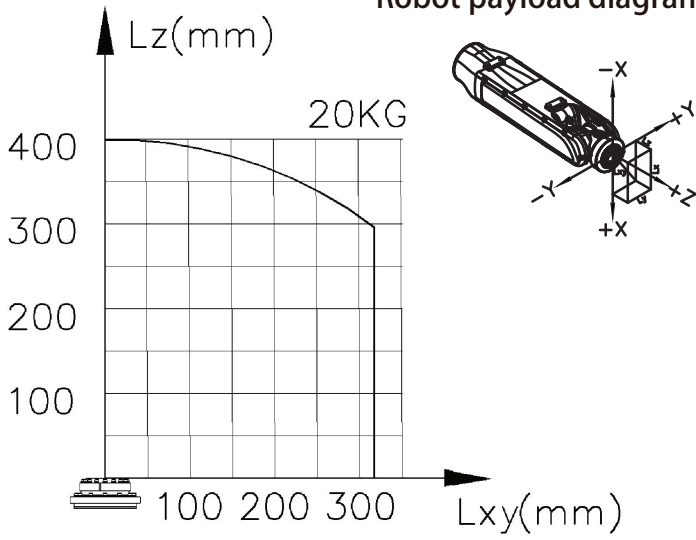


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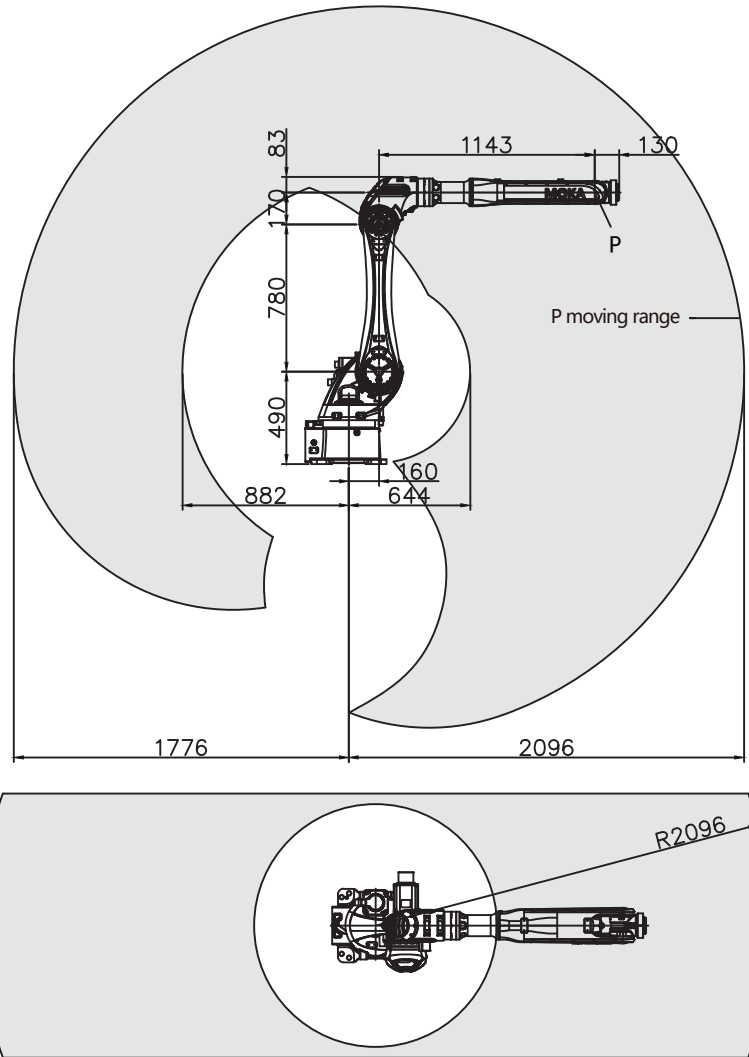


Robot payload diagram



External dimensions and moving range

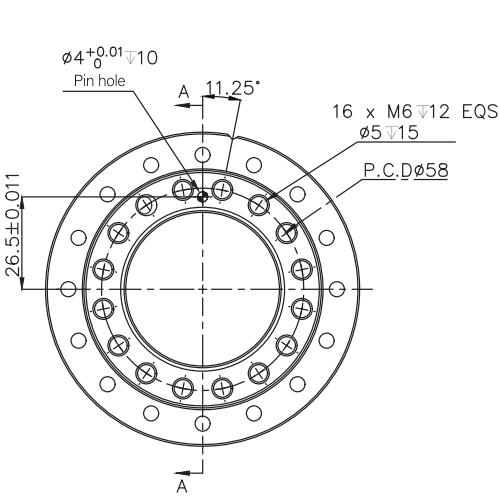
P moving range



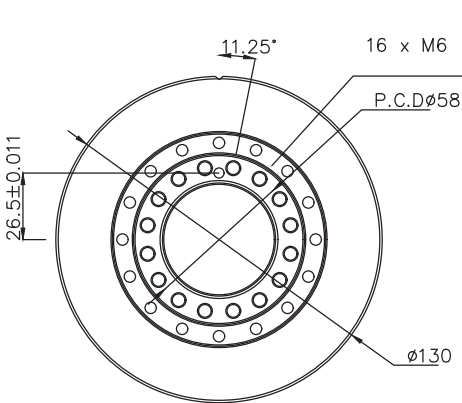
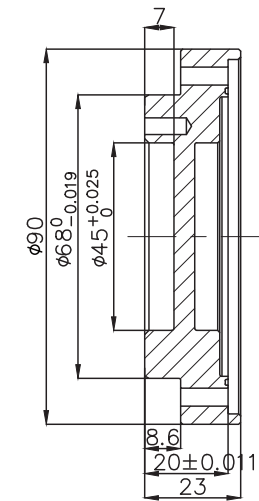
20KG
Max payload

$\pm 0.03\text{mm}$
Repeatability

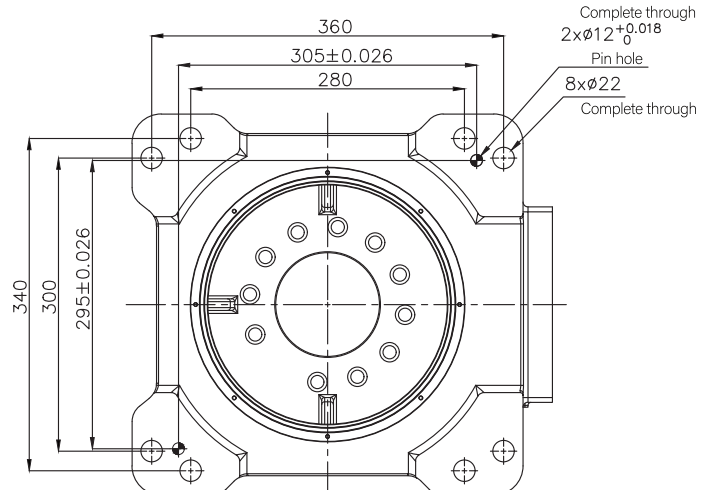
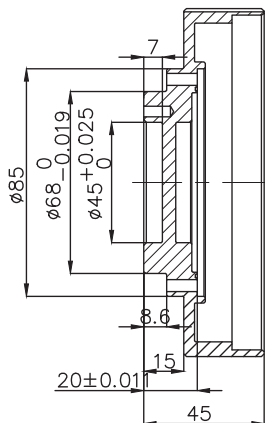
2100mm
Moving range



End flange installation dimensions



End flange installation dimensions(Waterproof)



Base installation dimensions

MB35-1870**PAYLOAD: 35KG****REPEATABILITY: ±0.03mm****MOKA 摩卡**

Number of axis	6-axis		Maximum speed	Moving range
Motion radius	1870mm	J1 axis S	202° /s	±180°
Power capacity	8.0KVA	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 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



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)
Rough quality	100KG
Cooling method	Natural cooling
Power specifications	3PH AC380V 50/60HZ (with built-in 380V~220V isolated transformer)
Grounding	Industrial grounding (dedicated grounding, resistance below100Ω)
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

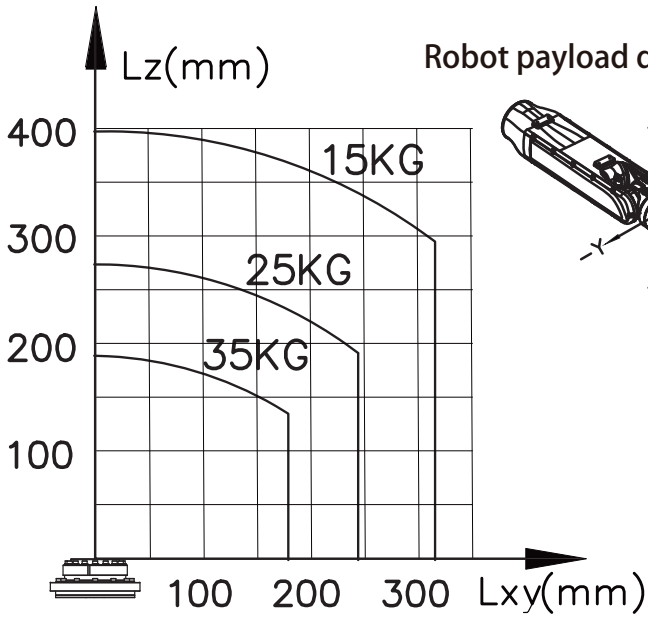
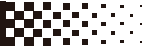


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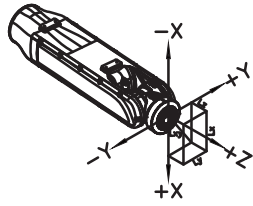
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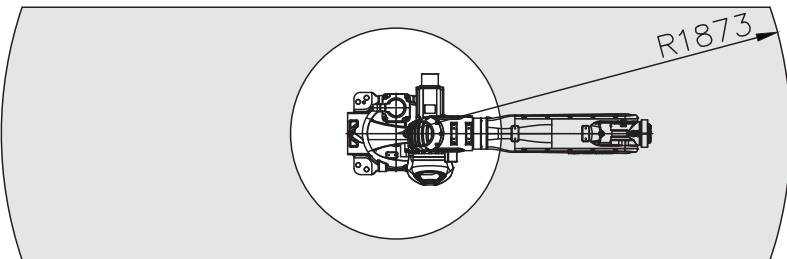
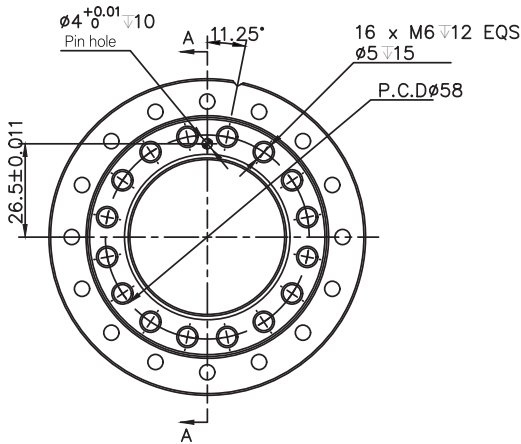
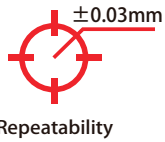
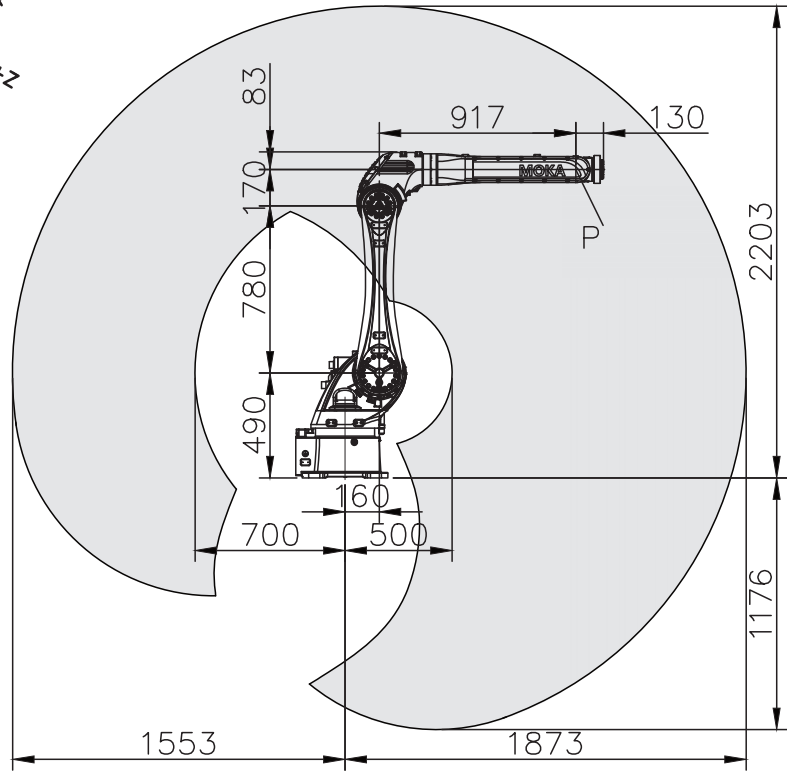


Robot payload diagram

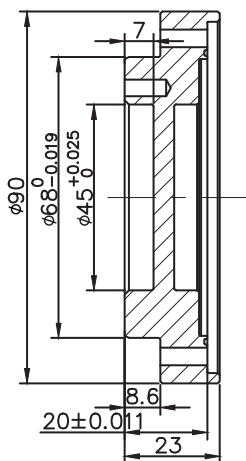


External dimensions and moving range

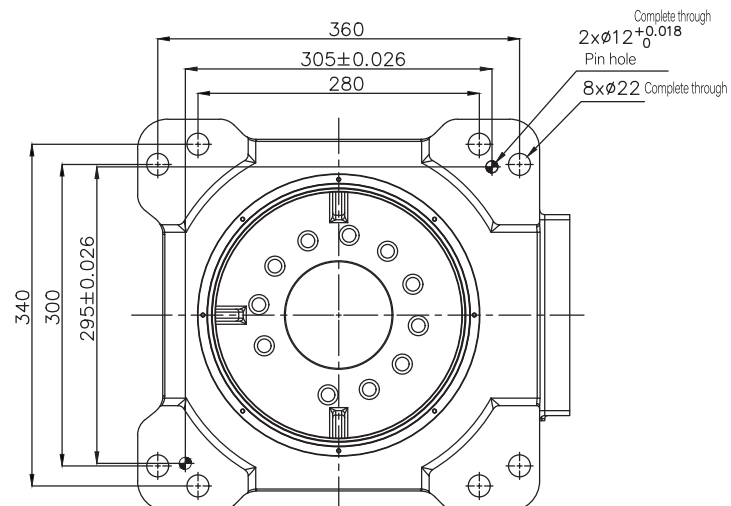
P moving range

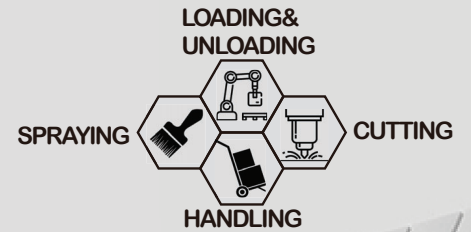


End flange installation dimensions



Base installation dimensions



MB45-1870**PAYLOAD : 45KG****REPEATABILITY : ±0.03mm****MOKA 摩卡**

Number of axis	6-axis		Maximum speed	Moving range
Motion radius	1870mm	J1 axis S	202° /s	±180°
Power capacity	8.0KVA	J2 axis L	211° /s	+98° ~-160°
Max Payload	45KG	J3 axis U	210° /s	+200° ~-80°
Repeatability	±0.03mm	J4 axis R	420° /s	±200°
Robot mass	286KG	J5 axis B	285° /s	+40° ~-220°
Built-in air tube	Φ8	J6 axis T	410° /s	±360°
Protection class	IP54/IP67	J4 axis R(N.m)	Axis 4 R (N.m)	103
Input/Output signals	Standard 16 in/16 out 24 VDC	J5 axis B(N.m)	Axis 5 B (N.m)	103
Mounting position	Floor/frame/ceiling	J6 axis T(N.m)	Axis 6 T (N.m)	100



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)
Rough quality	100KG
Cooling method	Natural cooling
Power specifications	3PH AC380V 50/60HZ (with built-in 380V~220V isolated transformer)
Grounding	Industrial grounding (dedicated grounding, resistance below100Ω)
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

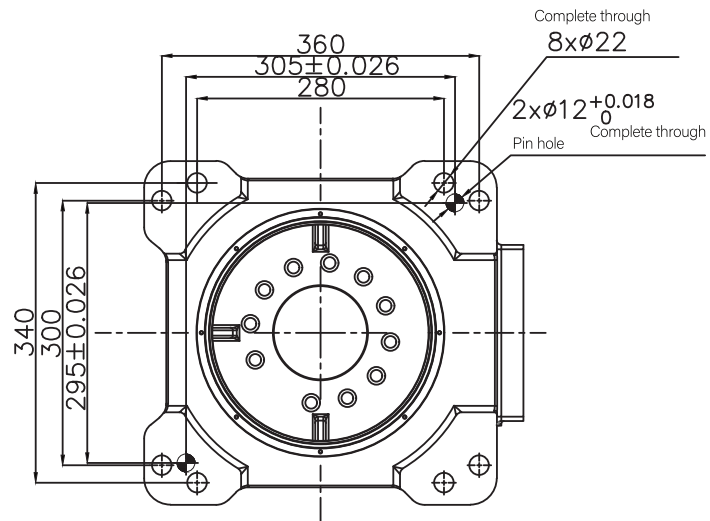
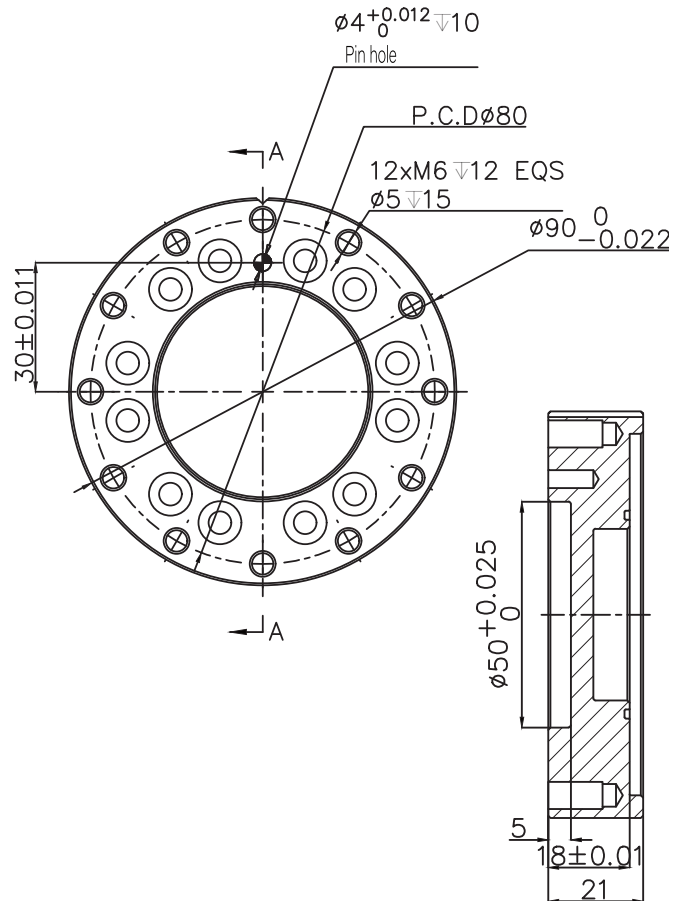
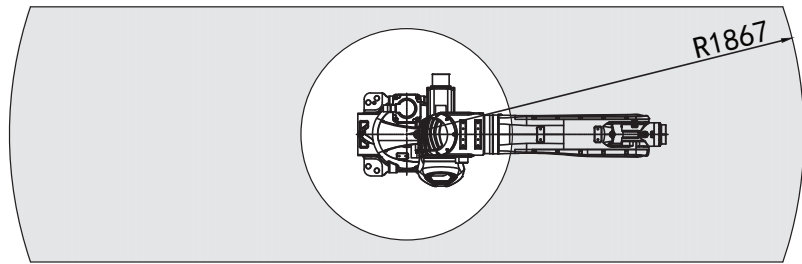
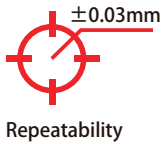
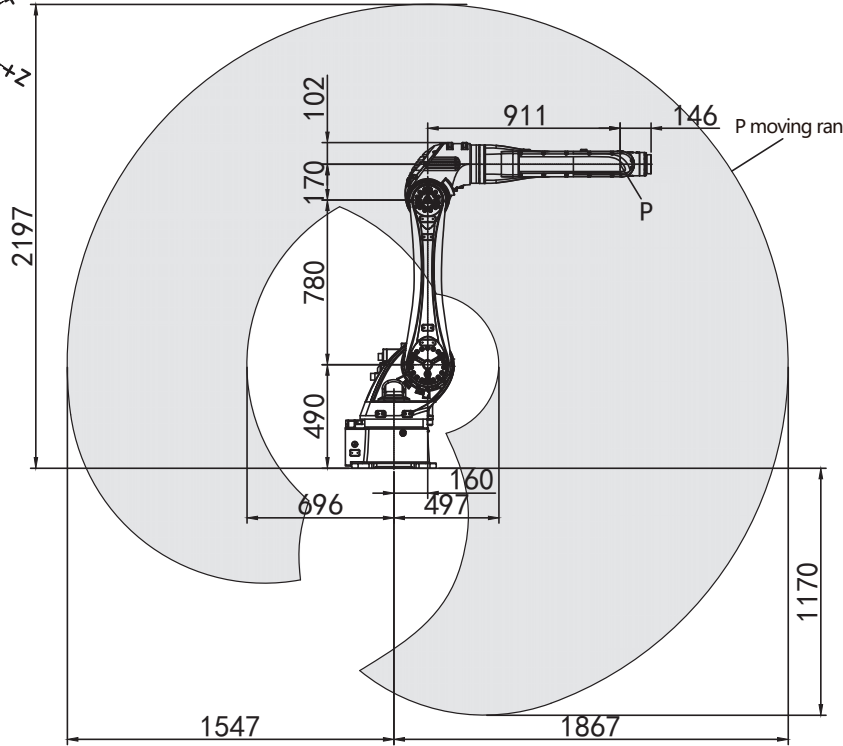
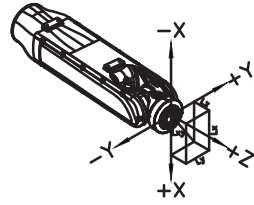
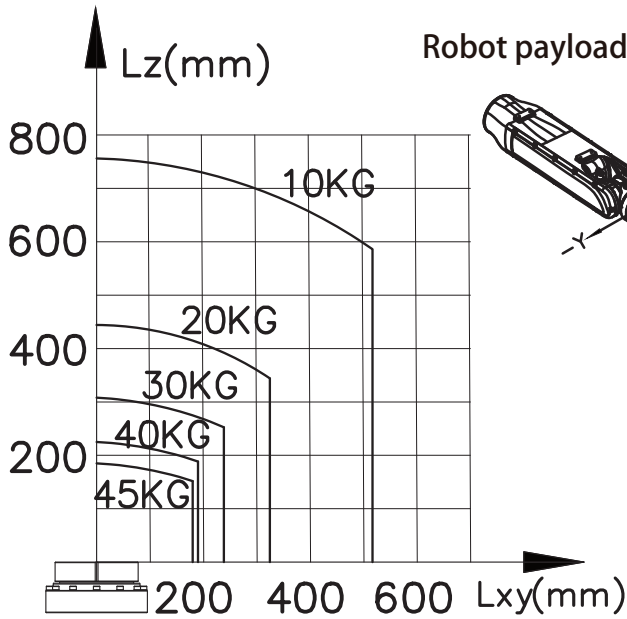
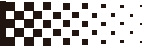


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Number of axis	6-axis		Maximum speed	Moving range
Motion radius	3200mm	J1 axis S	120° /s	±180°
Power capacity	25.0KVA	J2 axis L	110° /s	+60° ~-180°
Max Payload	180KG	J3 axis U	115° /s	+95° ~-80°
Protection class	IP54/IP67	J4 axis R	190° /s	±210°
Repeatability	±0.06mm	J5 axis B	185° /s	±125°
Robot mass	1300KG	J6 axis T	280° /s	±360°
Built-in air tube	Φ10	J4 axis R(N.m)		1134
Input/Output signals	Standard 16 in/16 out 24 VDC	J5 axis B(N.m)		1134
Mounting position	Floor	J6 axis T(N.m)		735



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 below 100Ω)
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

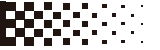
External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED, 640*480 pixels
Protection class	IP54
Cable Length	Standard: 5m Optional: 15m

Manipulator

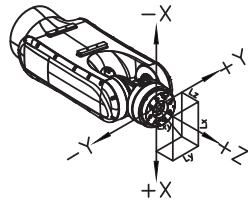
Selector, axis operation, value, mode selection with key (teach mode/auto mode/remote mode), emergency stop, enable, USB port etc



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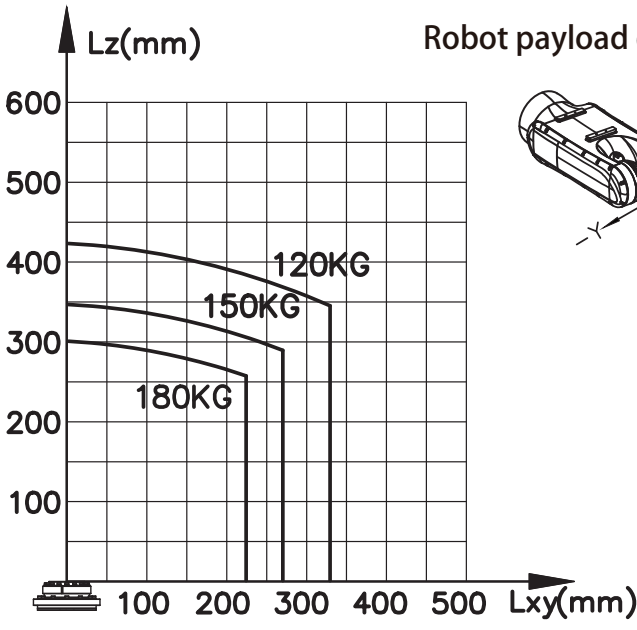
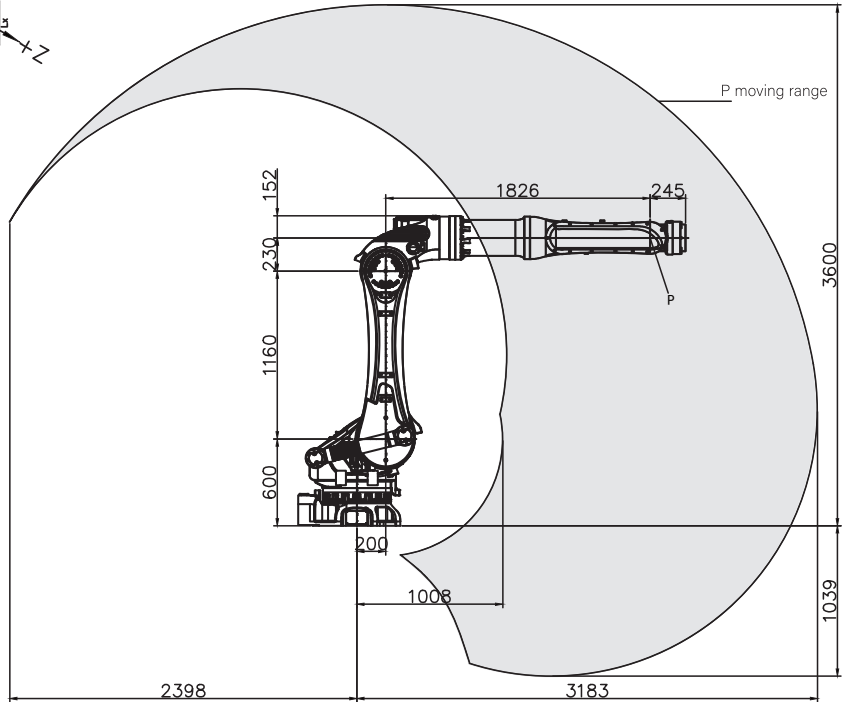


Robot payload diagram

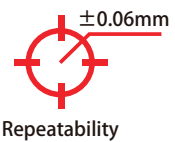


External dimensions and moving range

P moving range



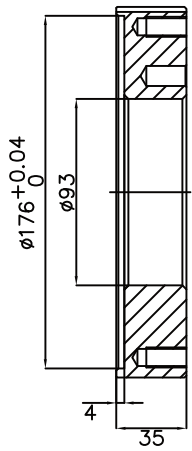
Max payload



Repeatability



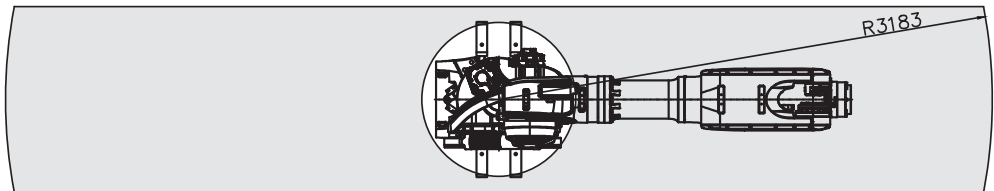
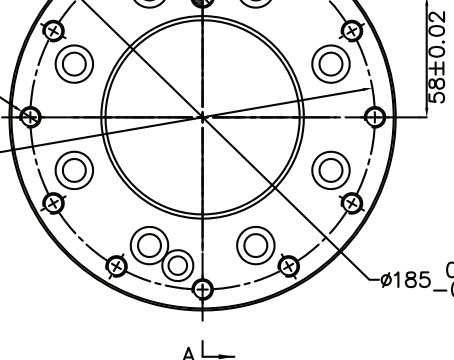
Moving range



$\phi 10^{+0.02}_{0.00} \nabla 20$
 $\surd \phi 11 \times 90^\circ$, Near side

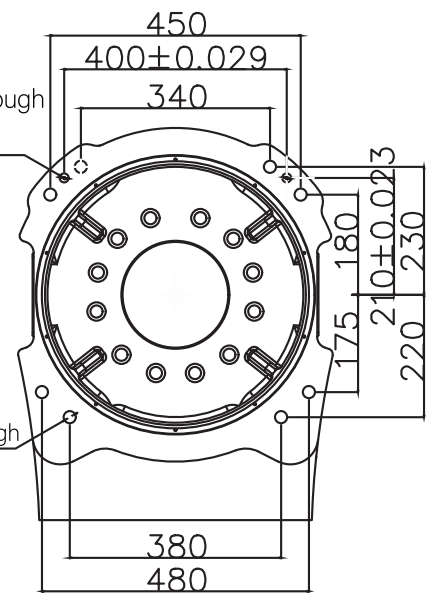
12 x M10 $\nabla 20$ EQS
 $\phi 8.5 \nabla 24.5$

P.C.D $\phi 165$



+0.018
 2x $\phi 160$ Complete through
 Pin hole

8 x $\phi 22$ Complete through



End flange installation dimensions(Waterproof)

Base installation dimensions



Number of axis	6-axis		Maximum speed	Moving range
Motion radius	2650mm	J1 axis S	120° /s	±180°
Power capacity	25.0KVA	J2 axis L	110° /s	+60° ~-180°
Max Payload	210KG	J3 axis U	115° /s	+95° ~-80°
Protection class	IP54/IP67	J4 axis R	190° /s	±210°
Repeatability	±0.06mm	J5 axis B	150° /s	±125°
Robot mass	1240KG	J6 axis T	220° /s	±360°
Built-in air tube	Φ10	J4 axis R(N.m)		1134
Input/Output signals	Standard 16 in/16 out 24 VDC	J5 axis B(N.m)		1134
Mounting position	Floor	J6 axis T(N.m)		735



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 below100Ω)
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

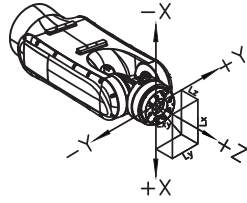
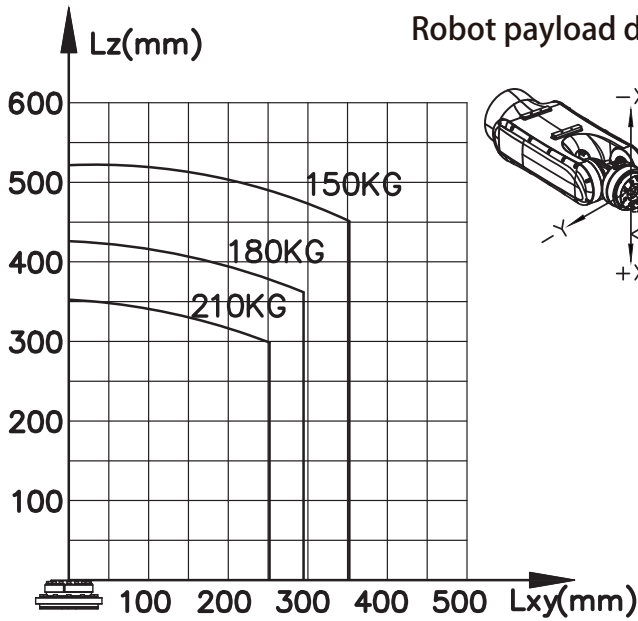
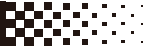
Manipulator

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

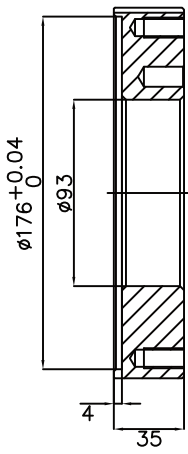
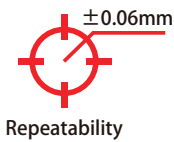
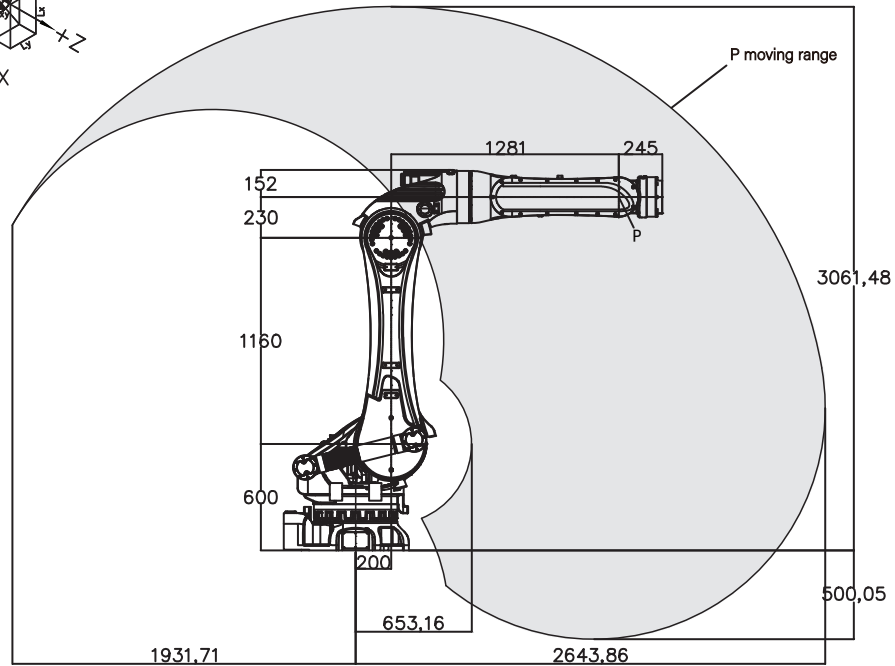


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External dimensions and moving range



$\phi 10^{+0.02}_{0.00} \nabla 20$
 $\surd \phi 11 \times 90^\circ$, Near side

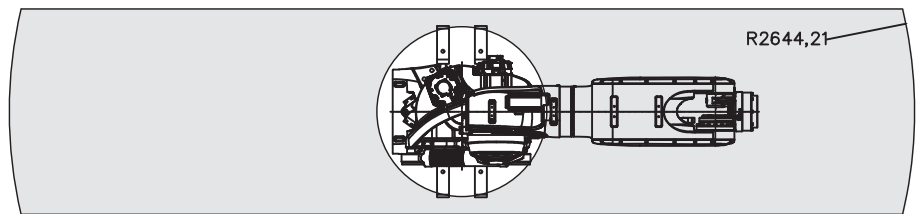
12 x M10 $\nabla 20$ EQS
 $\phi 8.5 \nabla 24.5$

P.C.D $\phi 165$

58 ± 0.02

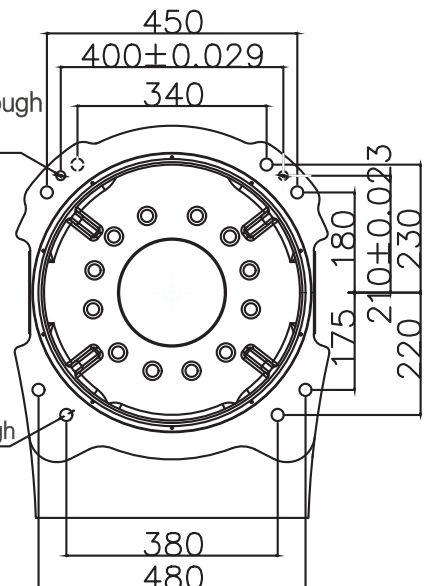
$\phi 185_{-0.03}^0$

End flange installation dimensions(Waterproof)



$+0.018$
2x $\phi 160$ Complete through
Pin hole

8 x $\phi 22$ Complete through



Base installation dimensions



Number of axis	6-axis		Maximum speed	Moving range
Motion radius	2650mm	J1 axis S	120° /s	±180°
Power capacity	25.0KVA	J2 axis L	110° /s	+60° ~-180°
Max Payload	280KG	J3 axis U	115° /s	+95° ~-80°
Protection class	IP54/IP67	J4 axis R	190° /s	±210°
Repeatability	±0.06mm	J5 axis B	135° /s	±125°
Robot mass	1240KG	J6 axis T	220° /s	±360°
Built-in air tube	Φ 10	J4 axis R(N.m)		1134
Input/Output signals	Standard 16 in/16 out 24 VDC	J5 axis B(N.m)		1134
Mounting position	Floor	J6 axis T(N.m)		752



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 below 100Ω)
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

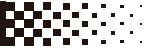
Manipulator

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



ATTENTION

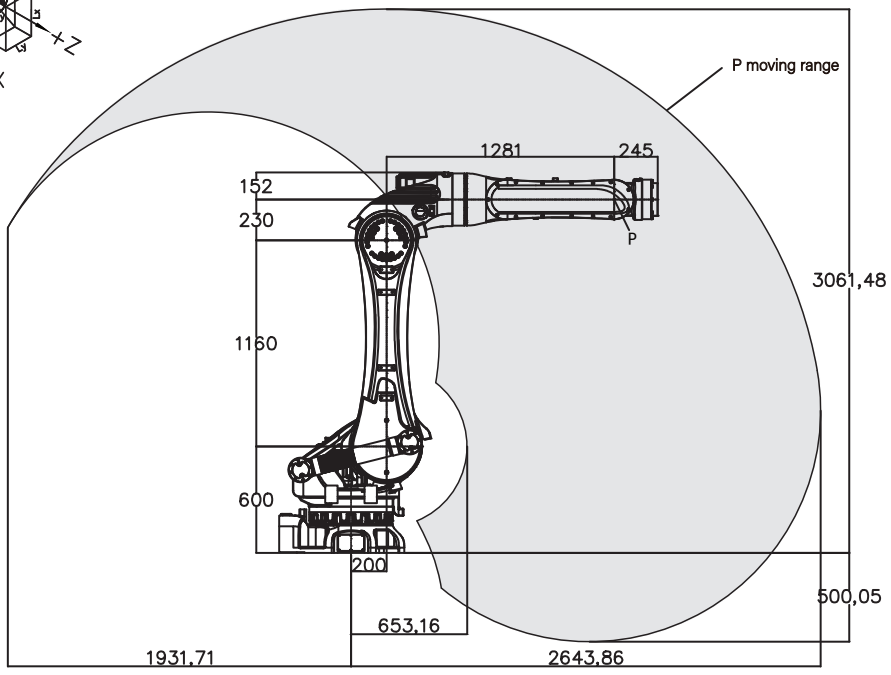
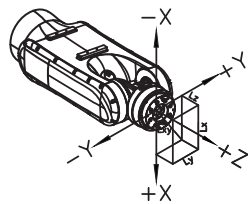
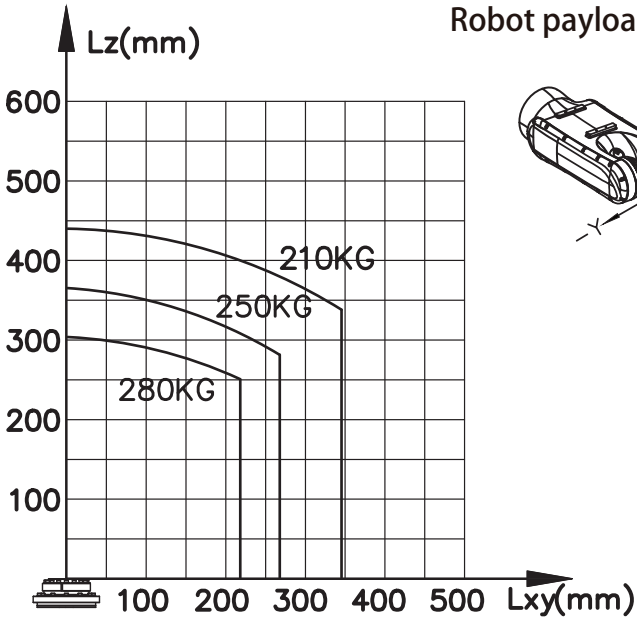
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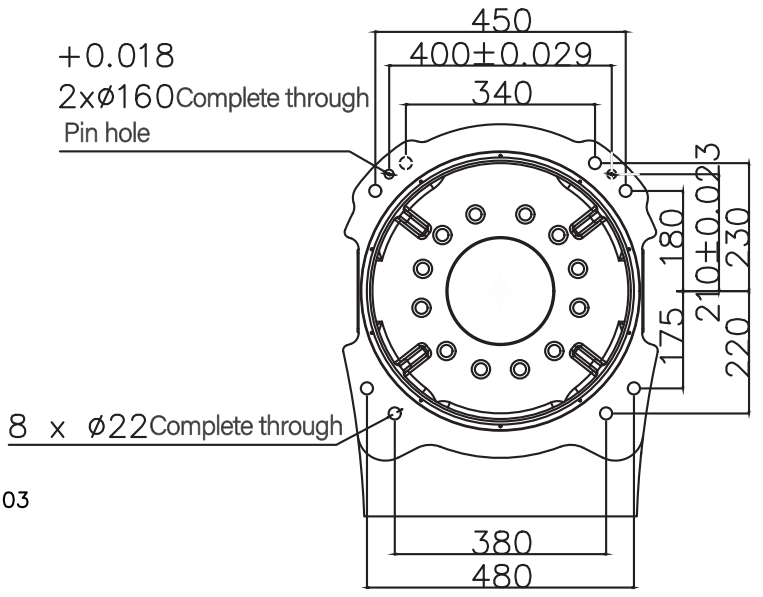
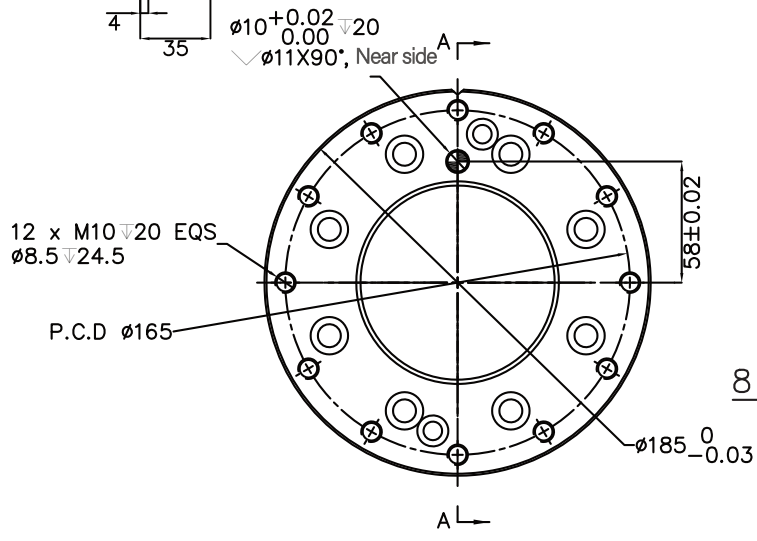
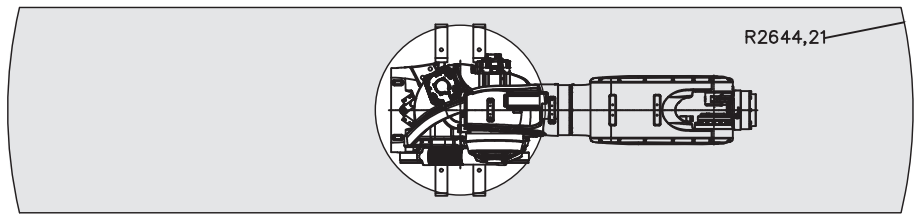
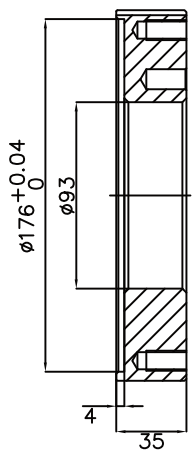
Robot payload diagram

External dimensions and moving range

P moving range



- Max payload
- Repeatability
- Moving range



End flange installation dimensions (Waterproof)

Base installation dimensions

MR10C-1488**PAYLOAD : 10KG****REPEATABILITY : ±0.05mm****MOKA 摩卡****LOADING & UNLOADING****PALLETIZING****HANDLING**

Number of axis	4-axis	Maximum speed	Moving range
Motion radius	1488mm	J1 axis S	±170°
Power capacity	3.0KVA	J2 axis L	-32° ~+80°
Max Payload	10KG	J3 axis U	+20° ~-90°
Protection class	IP56/IP67	J4 axis R	±360°
Repeatability	±0.05mm	Input/Output signals	Standard 16 in/16 out 24 VDC
Robot mass	165KG	Mounting position	Floor/frame/ceiling
Built-in air tube	Φ 10		



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 below100Ω)
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

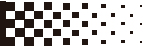
Manipulator

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



ATTENTION

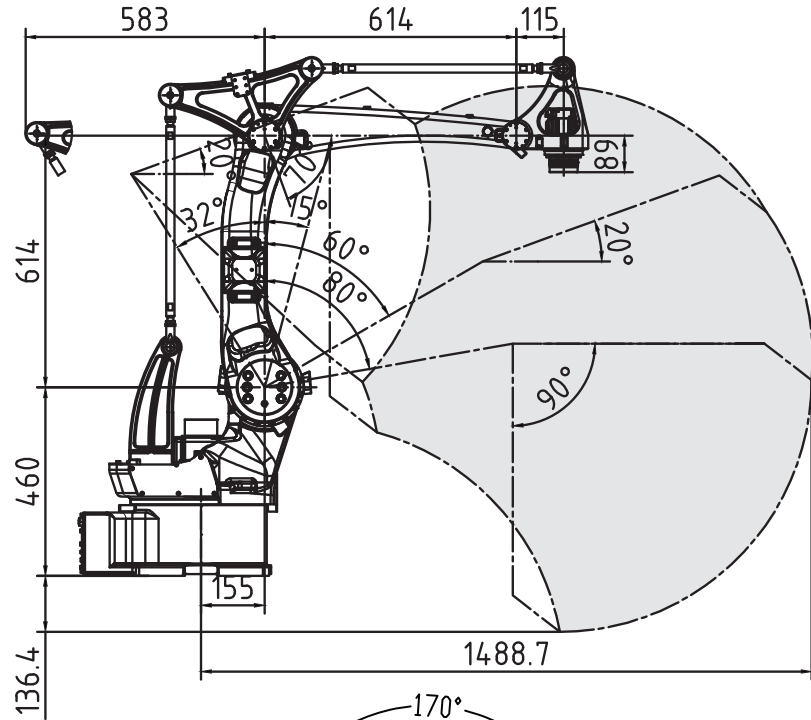
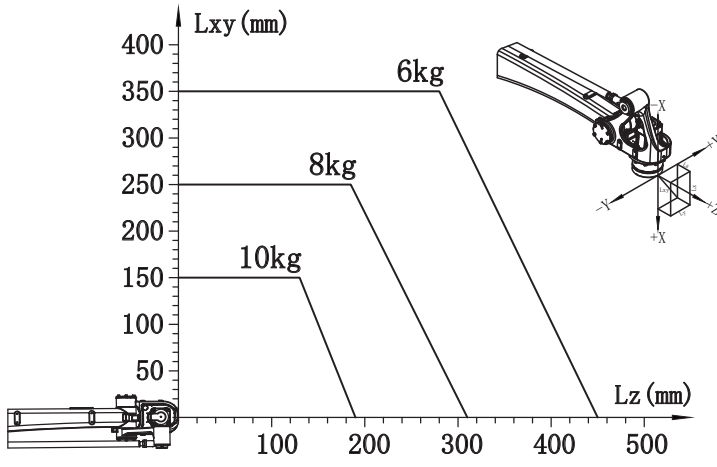
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Robot payload diagram

External dimensions and moving range

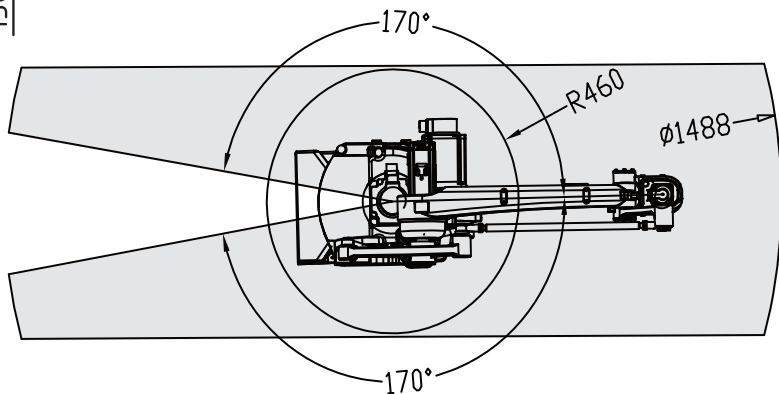
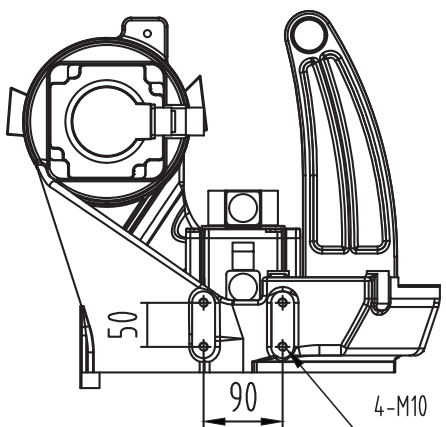
P moving range



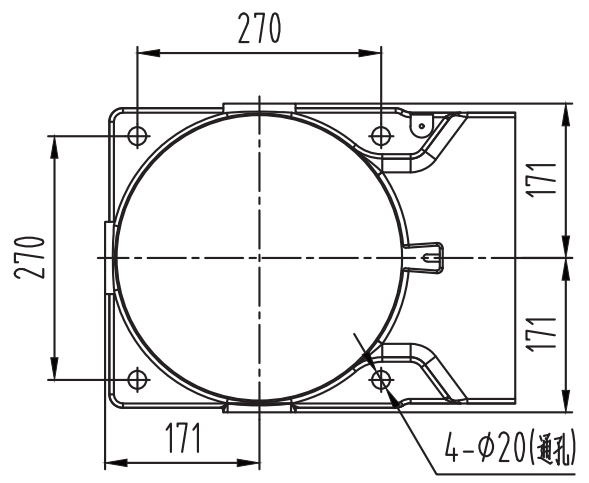
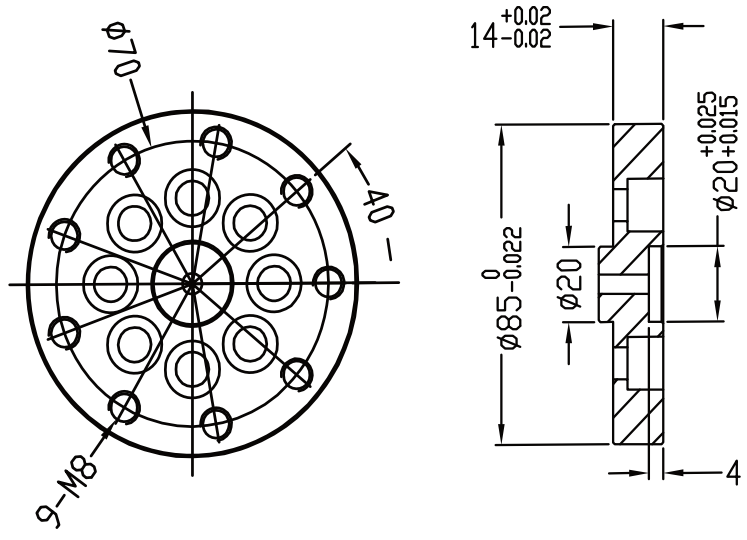
10KG
Max payload

$\pm 0.05\text{mm}$
Repeatability

1488mm
Moving range



Swivel installation dimensions



End flange installation dimensions(Waterproof)

Base installation dimensions



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

	Number of axis	6-axis	Maximum speed	Moving range
	Motion radius	1440mm	J1 axis S 285° /s	±167°
	Power capacity	4.5KVA	J2 axis L 247° /s	+80° ~-145°
	Max Payload	10KG	J3 axis U 285° /s	+145° ~-75°
	Protection class	IP56/IP67	J4 axis R 392° /s	±190°
	Repeatability	±0.05mm	J5 axis B 272° /s	+50° ~-210°
	Robot mass	210KG	J6 axis T 1353° /s	±220°
	Built-in air tube	Φ10	J4 axis R(N.m)	103.5
	Input/Output signals	Standard 16 in/16 out 24 VDC	J5 axis B(N.m)	51.84
	Mounting position	Floor/frame/ceiling	J6 axis T(N.m)	32.64



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	60KG
Cooling method	Natural cooling
Power specifications	1PH AC220V 50/60HZ
Grounding	Industrial grounding (dedicated grounding, resistance below100Ω)
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

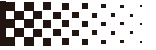


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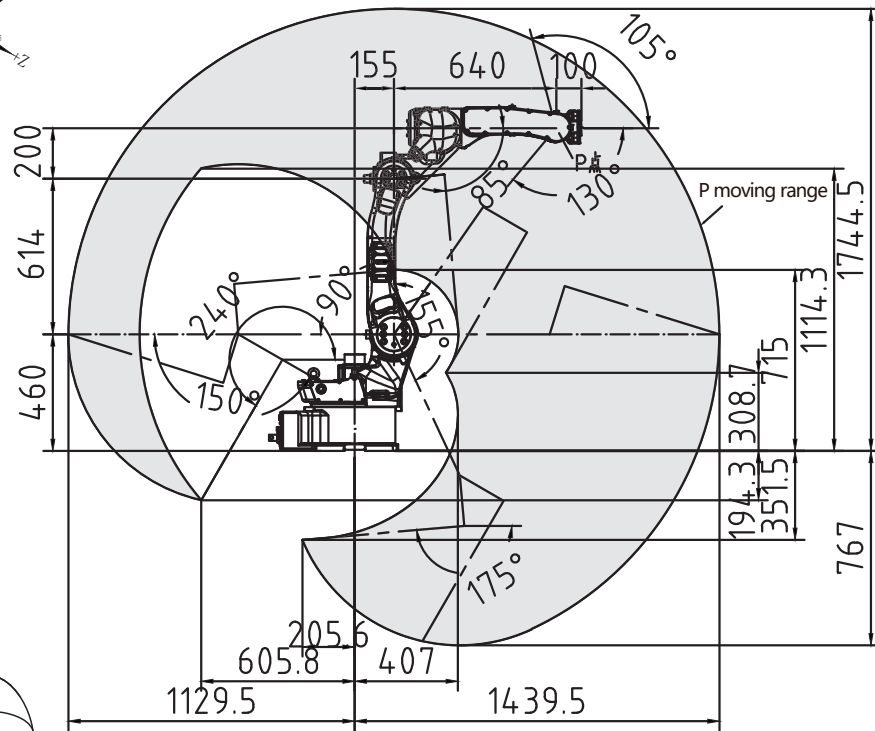
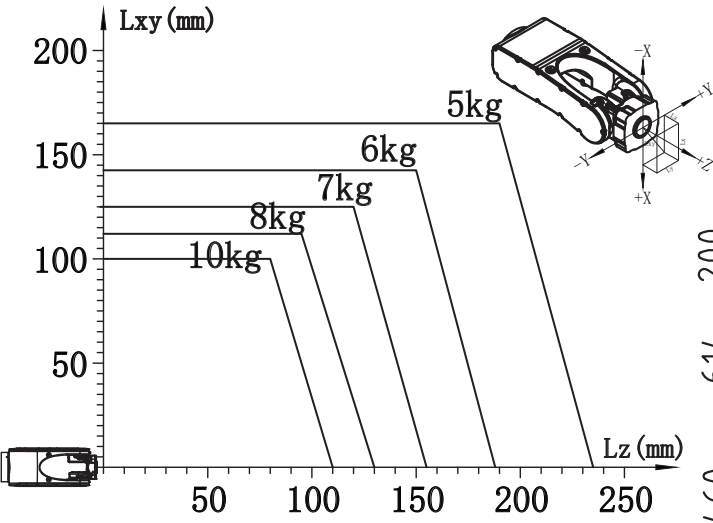
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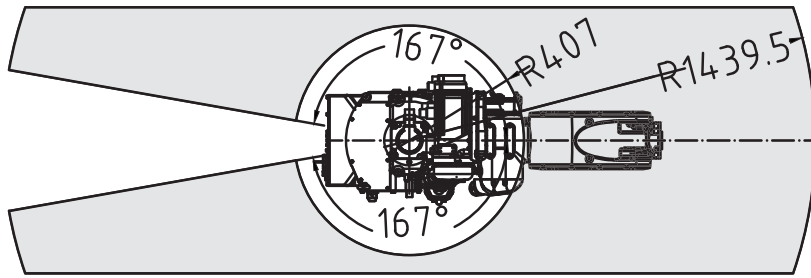
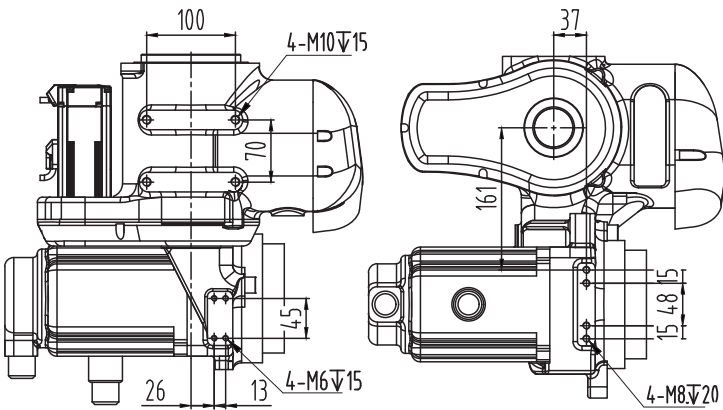
Robot payload diagram

External dimensions and moving range

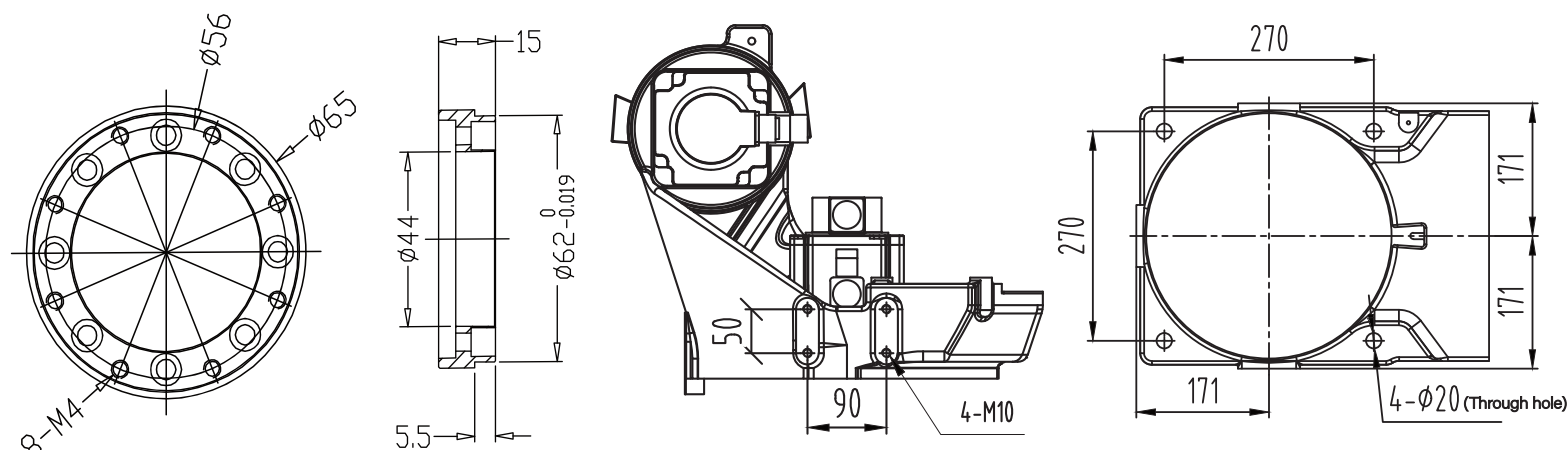
P moving range



- 10KG**
Max payload
- $\pm 0.05\text{mm}$
Repeatability
- 1440mm
Moving range



End flange installation dimensions



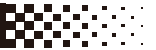
End flange installation dimensions(Waterproof) Swivel installation dimensions Base installation dimensions



SPECIAL FOR WELDING

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

Number of axis	6-axis		Maximum speed	Moving range
Motion radius	2010mm	J1 axis S	203° /s	$\pm 165^\circ$
Power capacity	4.5KVA	J2 axis L	223° /s	+80° ~-145°
Max Payload	12KG	J3 axis U	214° /s	+145° ~-75°
Protection class	IP56/IP67	J4 axis R	392° /s	$\pm 190^\circ$
Repeatability	$\pm 0.05\text{mm}$	J5 axis B	276° /s	+50° ~-210°
Robot mass	313KG	J6 axis T	1356° /s	$\pm 220^\circ$
Built-in air tube	$\Phi 10$	J4 axis R(N.m)		88.5
Input/Output signals	Standard 16 in/16 out 24 VDC	J5 axis B(N.m)		45.52
Mounting position	Floor/frame/ceiling	J6 axis T(N.m)		32.64



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	60KG
Cooling method	Natural cooling
Power specifications	1PH AC220V 50/60HZ
Grounding	Industrial grounding (dedicated grounding, resistance below100Ω)
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

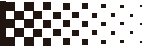


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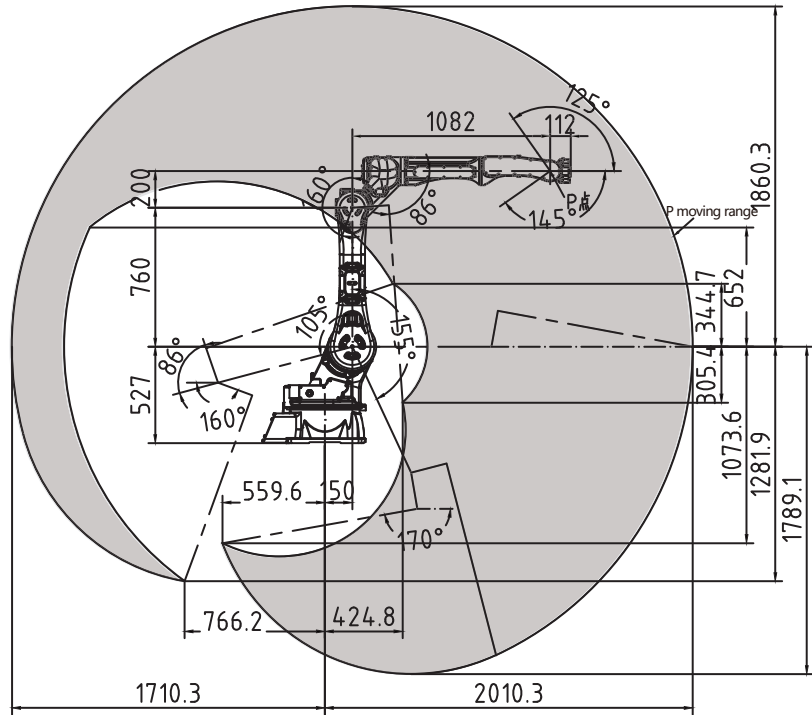
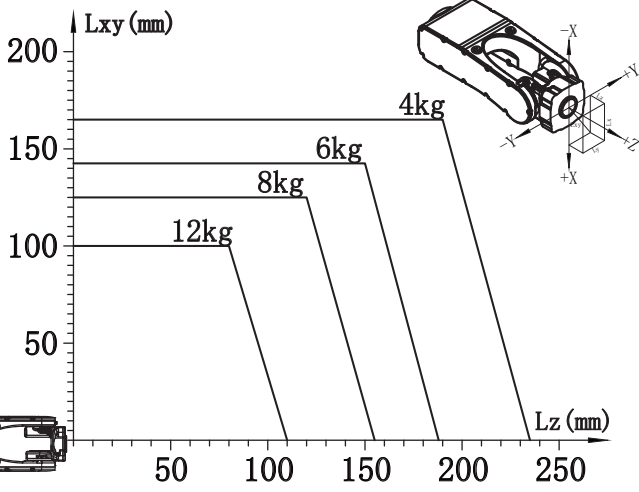
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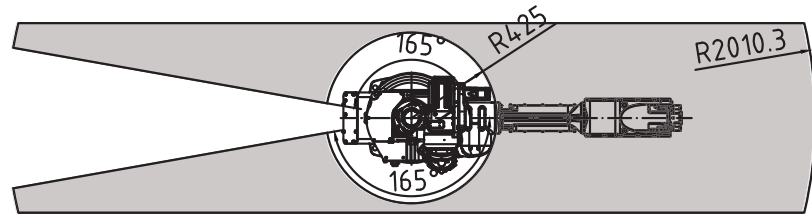
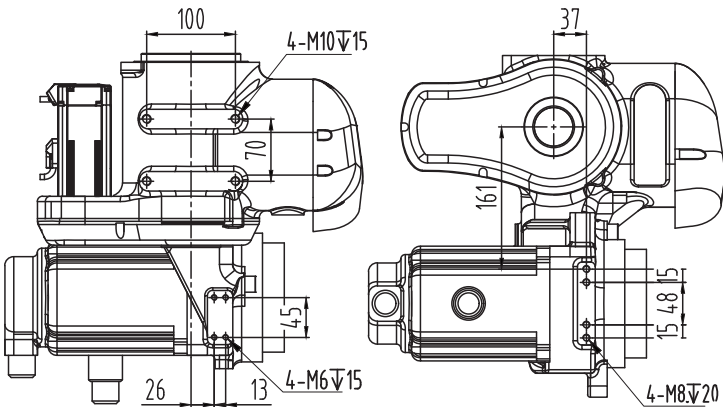
Robot payload diagram

External dimensions and moving range

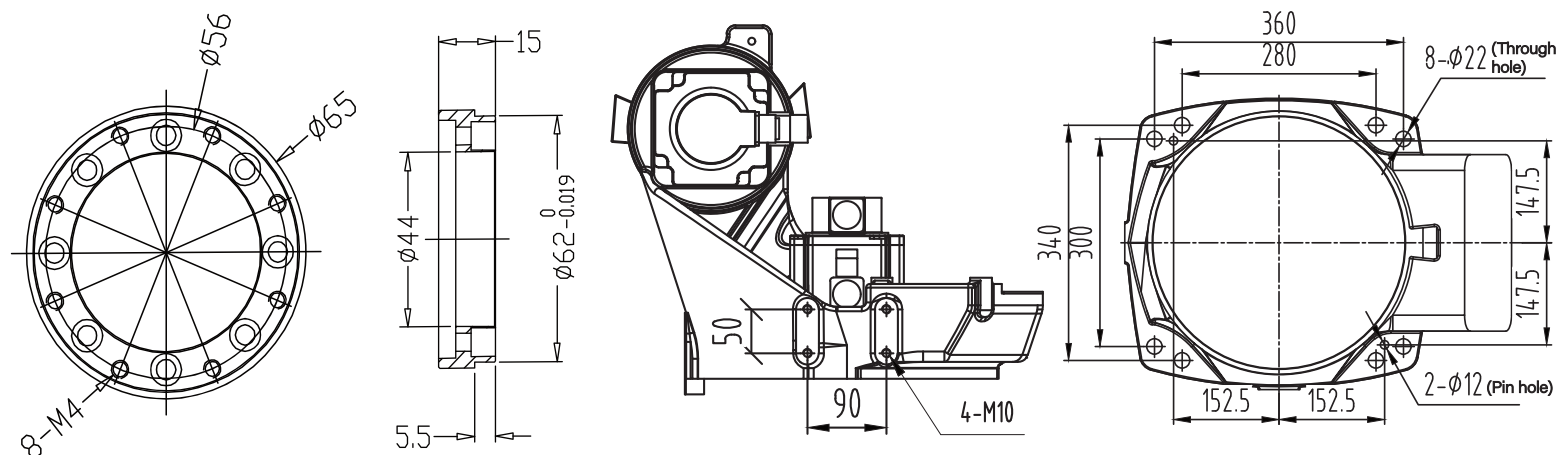
P moving range



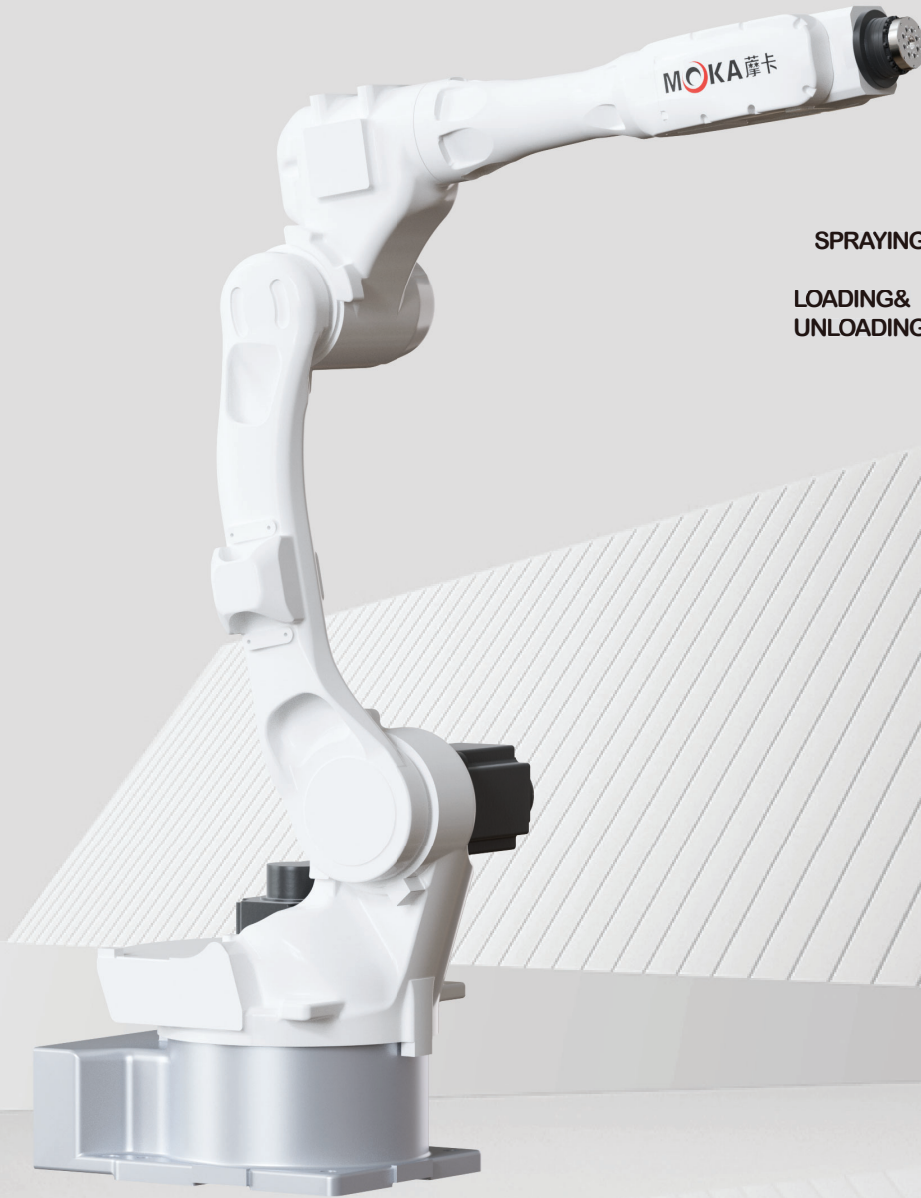
- 12KG** Max payload
- $\pm 0.05\text{mm}$ Repeatability
- 2010mm Moving range



End flange installation dimensions



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



Number of axis	6-axis	Maximum speed	Moving range
Motion radius	1550mm	J1 axis S	±170°
Power capacity	4.5KVA	J2 axis L	+80° ~-145°
Max Payload	12KG	J3 axis U	+145° ~-75°
Protection class	IP56/IP67	J4 axis R	±190°
Repeatability	±0.05mm	J5 axis B	+20° ~-200°
Robot mass	210KG	J6 axis T	±360°
Built-in air tube	Φ10	J4 axis R(N.m)	103.5
Input/Output signals	Standard 16 in/16 out 24 VDC	J5 axis B(N.m)	51.84
Mounting position	Floor/frame/ceiling	J6 axis T(N.m)	32.64



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	60KG
Cooling method	Natural cooling
Power specifications	1PH AC220V 50/60HZ
Grounding	Industrial grounding (dedicated grounding, resistance below100Ω)
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

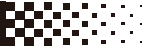


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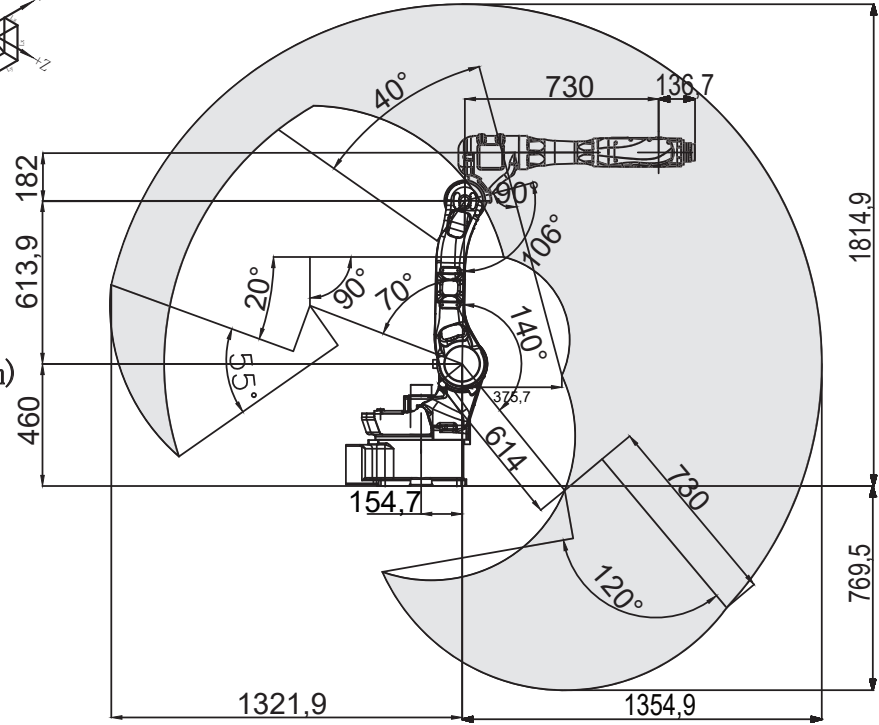
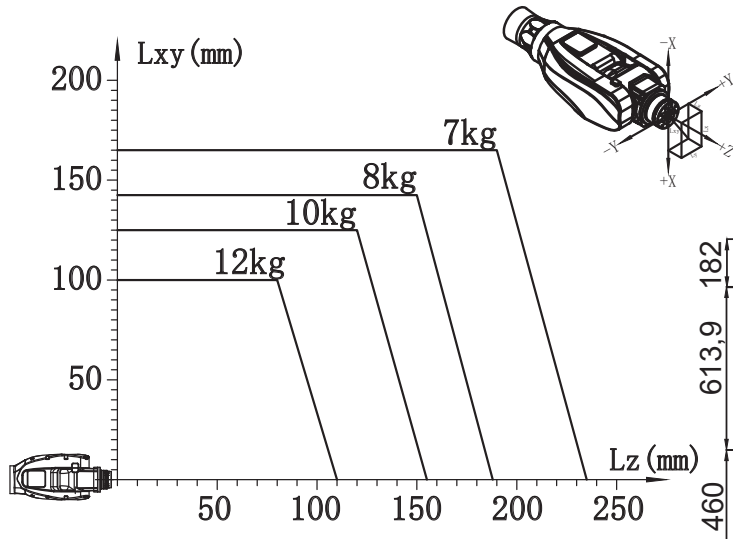
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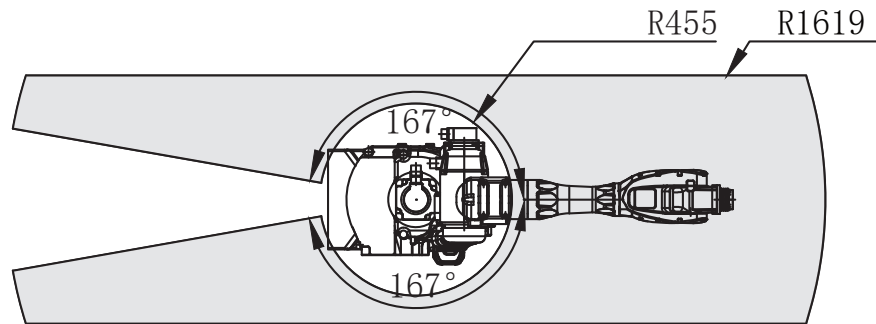
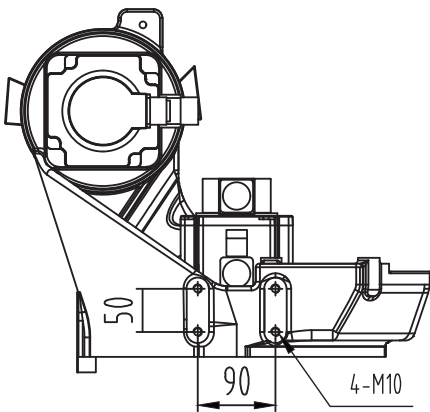
Robot payload diagram

External dimensions and moving range

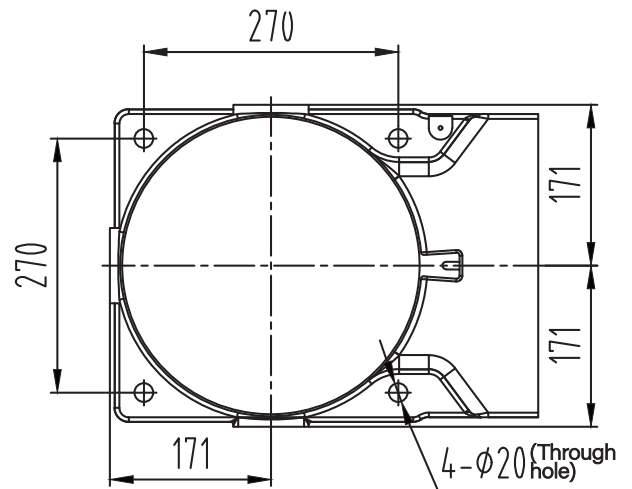
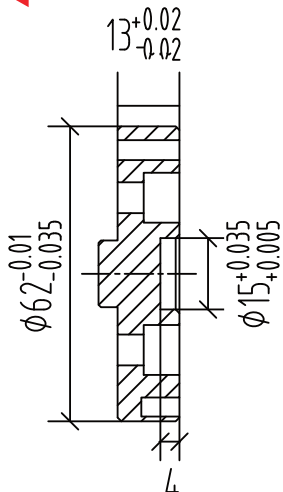
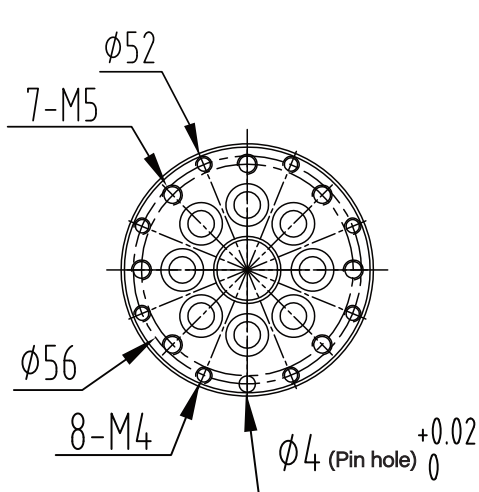
P moving range



- Max payload
- Repeatability $\pm 0.05\text{mm}$
- Moving range 1550mm



Swivel installation dimensions



End flange installation dimensions(Waterproof)

Base installation dimensions

MR80E-2250

PAYLOAD : 80KG

REPEATABILITY : ±0.08mm



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 T	370/s	±360°
Built-in air tube	Φ8/Φ10	J4 axis R(N.m)		210
Input/Output signals	Standard 16 in/16 out 24 VDC	J5 axis B(N.m)		210
Mounting position	Floor/frame/ceiling	J6 axis T(N.m)		130



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 below 100Ω)
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



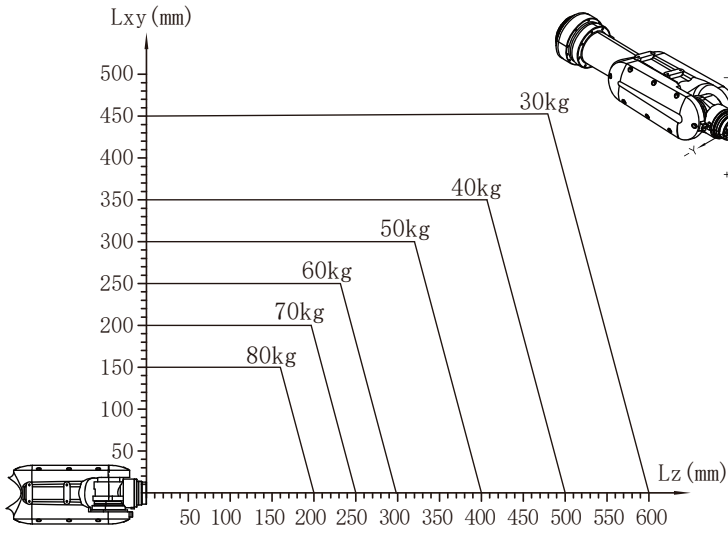
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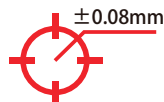
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Robot payload diagram



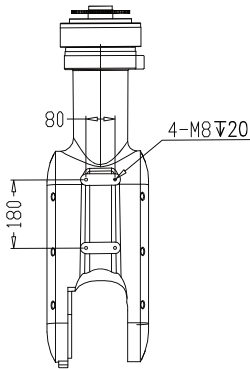
Max payload



Repeatability

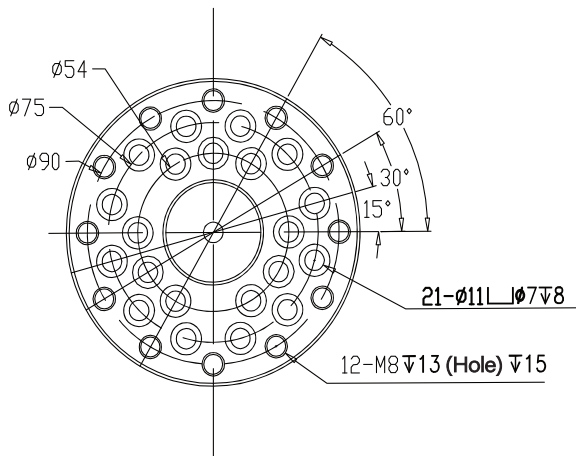
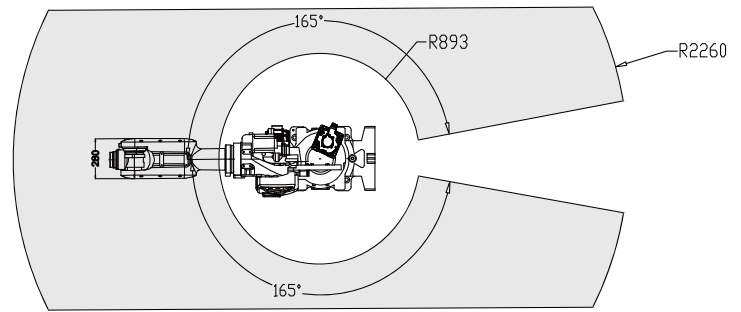
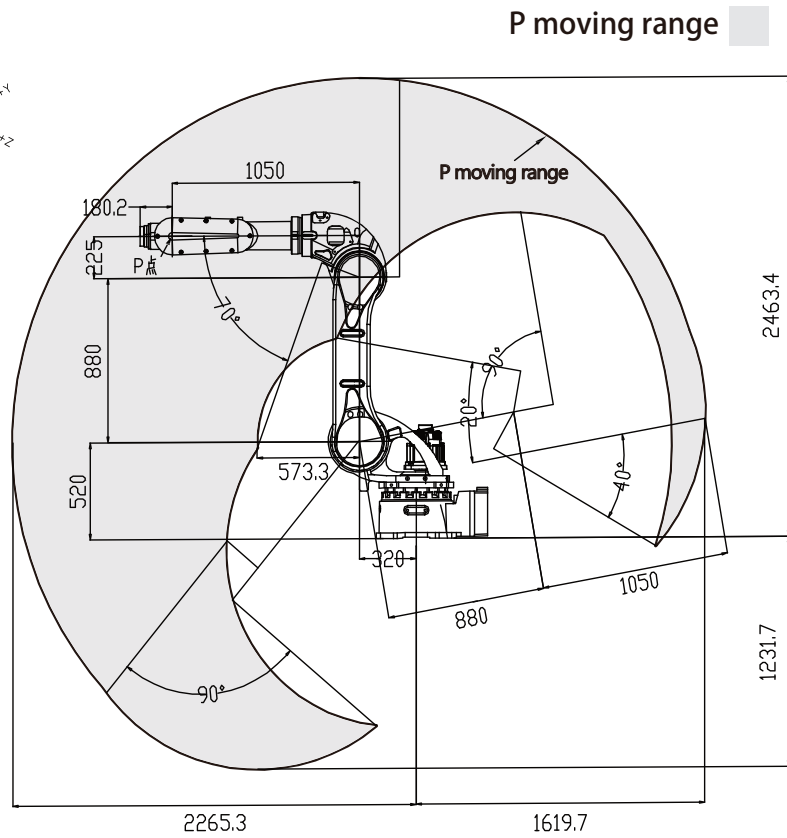


Moving range

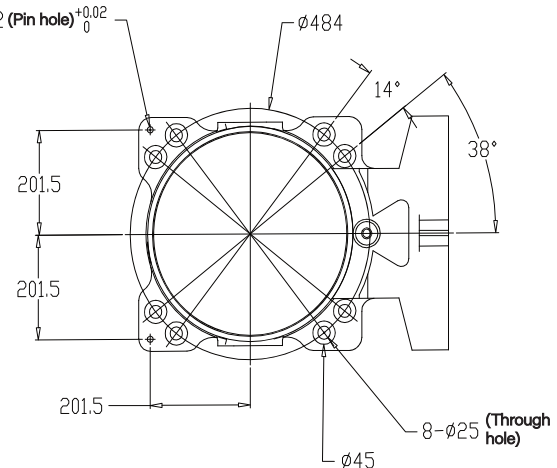
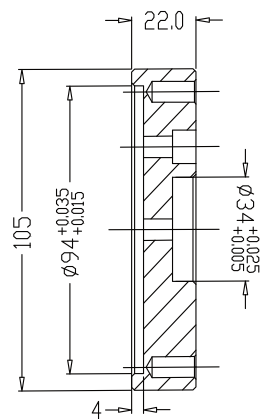


WRIST INSTALLATION DIMENSIONS

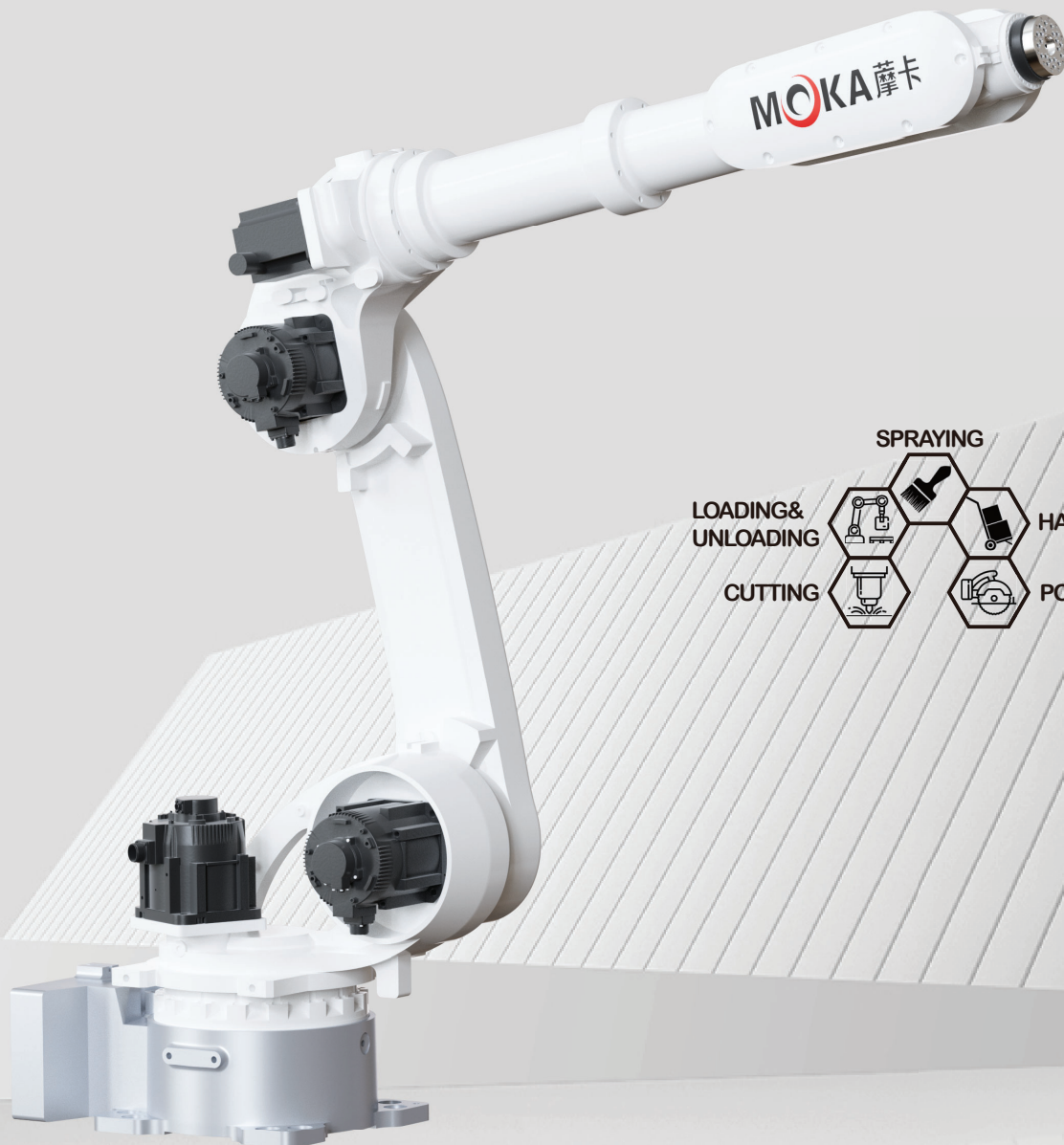
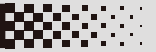
External dimensions and moving range



End flange installation dimensions(Waterproof)



Base installation dimensions



Number of axis	6-axis		Maximum speed	Moving range
Motion radius	2680mm	J1 axis S	214° /s	±160°
Power capacity	19.0KVA	J2 axis L	149° /s	+90° ~-120°
Max Payload	60KG	J3 axis U	175° /s	+140° ~-70°
Protection class	IP56/IP67	J4 axis R	378° /s	±190°
Repeatability	±0.08mm	J5 axis B	285° /s	+30° ~-210°
Robot mass	655KG	J6 axis T	370/s	±360°
Built-in air tube	Φ8/Φ10	J4 axis R(N.m)		210
Input/Output signals	Standard 16 in/16 out 24 VDC	J5 axis B(N.m)		210
Mounting position	Floor/frame/ceiling	J6 axis T(N.m)		130



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
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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

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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

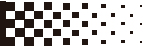


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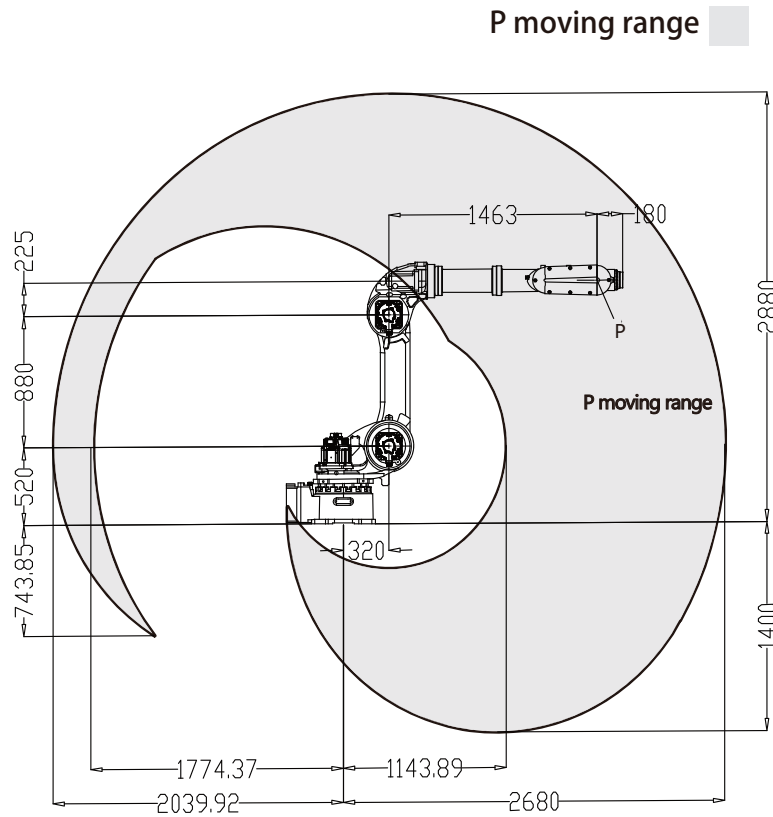
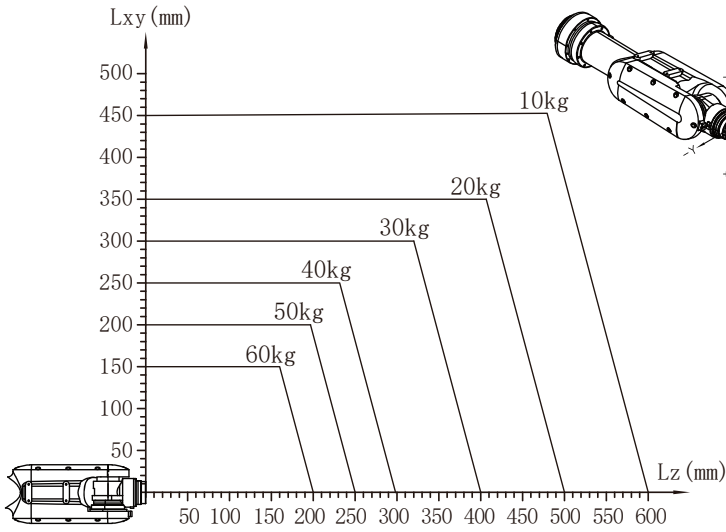
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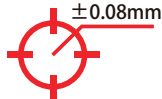


Robot payload diagram

External dimensions and moving range



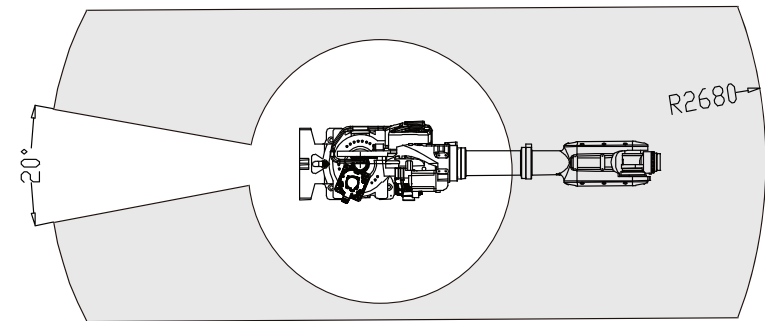
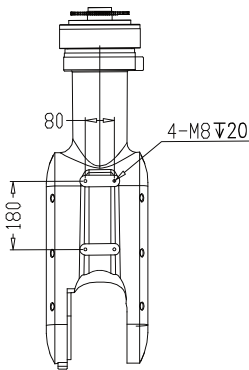
Max payload



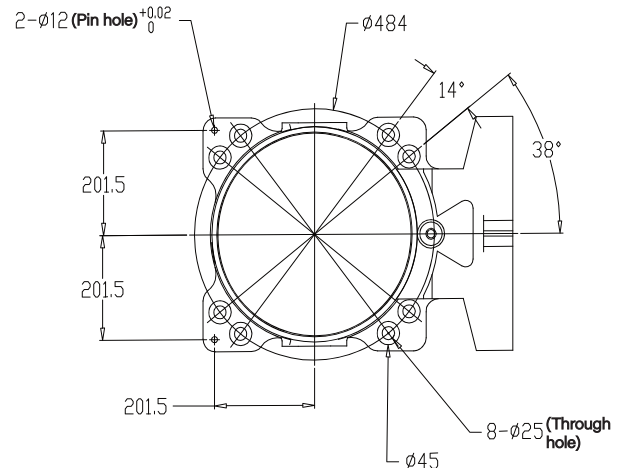
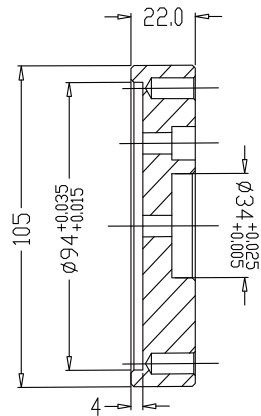
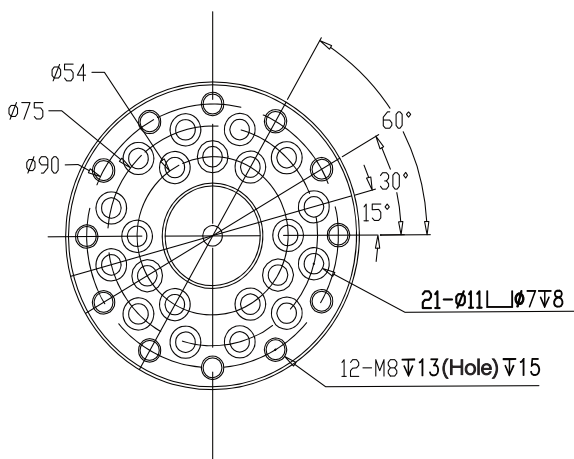
Repeatability



Moving range

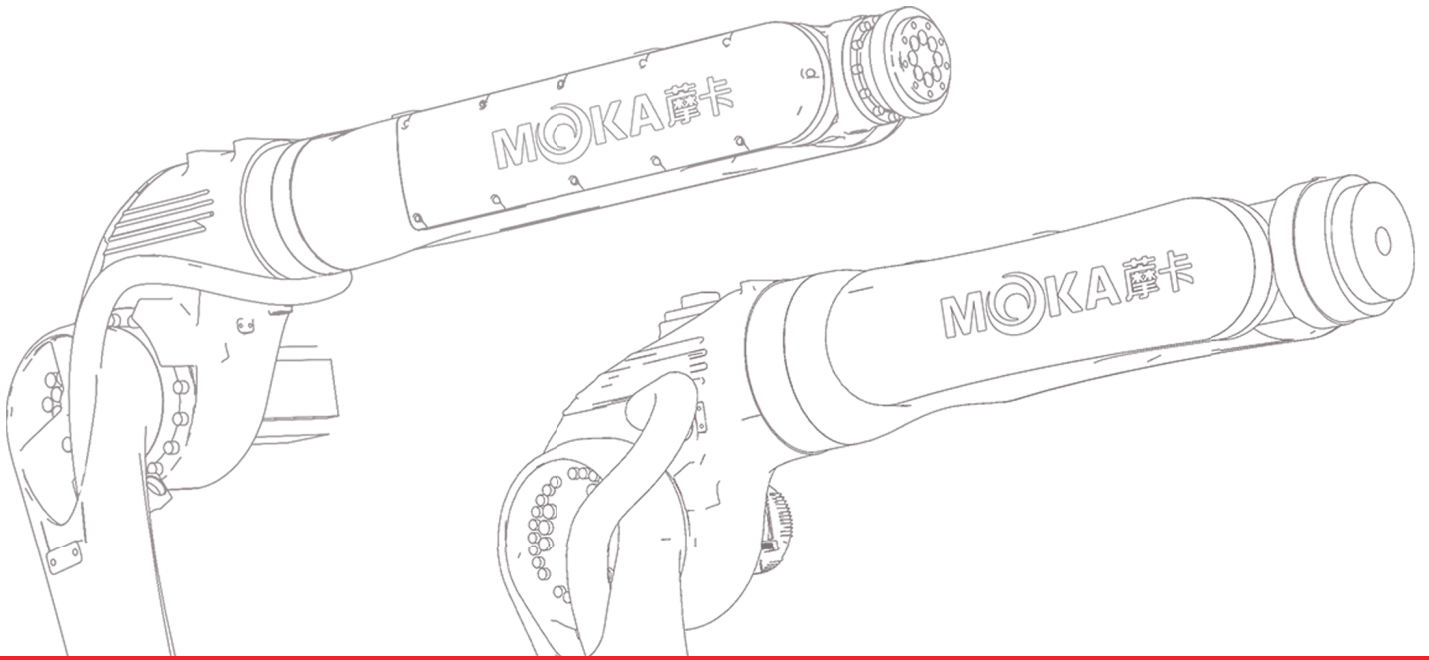


WRIST INSTALLATION DIMENSIONS



End flange installation dimensions(Waterproof)

Base installation dimensions



MOKA 摩卡

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