

Higher Precision



Higher Protection Level(IP67)



Higher Speed

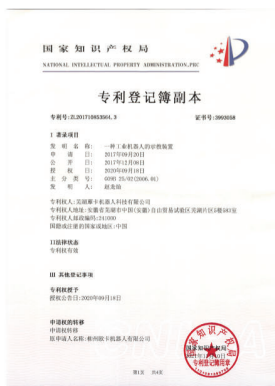
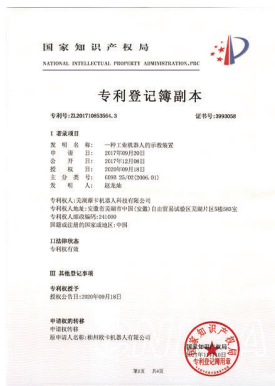


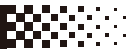
Better Price Performance



Wuhu Moka Robot Technology Co., Ltd. is a company engaged in the research and development, manufacturing and sales of industrial robots. Its products include six-axis general-purpose robots and hollow welding robots. The company follows the business philosophy of "pursuing excellence and customer first". Relying on its leading robot technology advantages and its own strong system integration capabilities, it continuously conducts technology research and development and innovation, while providing users with the best industrial robot body solutions, which are widely used in arc welding, spot welding, gluing, cutting, handling, palletizing, painting, machine tool loading and unloading, grinding, assembly, teaching and other fields, providing customers with high-value, high-precision, high-speed, and cost-effective industrial robot bodies.

Honorary qualifications





MB04SC-300



MB04SC-400



MB10SC-500



MB10SC-600



MB10SC-700



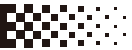
MB25SC-800



MB25SC-900



MB25SC-1000



MB04S-580



MB10S-740



MB10S-920



MB20-2100



MB35-1870

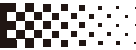


MB45-1870



MB SERIES

HEAVY DUTY 6-AXIS ROBOTS



MB180-3200



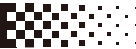
MB210-2650



MB280-2650

MR SERIES

MR SERIES ROBOTS



MR10C-1488



MR30C-1750



MR10-1440
(MR10W-1440-D)



MR12-2010



MR12Z-1550



MR80E-2250



MR60E-2680

MB04SC-300

PAYLOAD : 1-4KG

REPEATABILITY : $\pm 0.01\text{mm}$ 

Number of axis	4-axis	Maximum speed		Moving range
Motion radius	300mm	J1 axis S	J1+J2 5950mm/s	$\pm 145^\circ$
Power capacity	1.5KVA	J2 axis L		$\pm 120^\circ$
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°C	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 6m. 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



ATTENTION

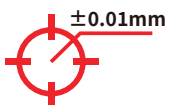
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Max payload



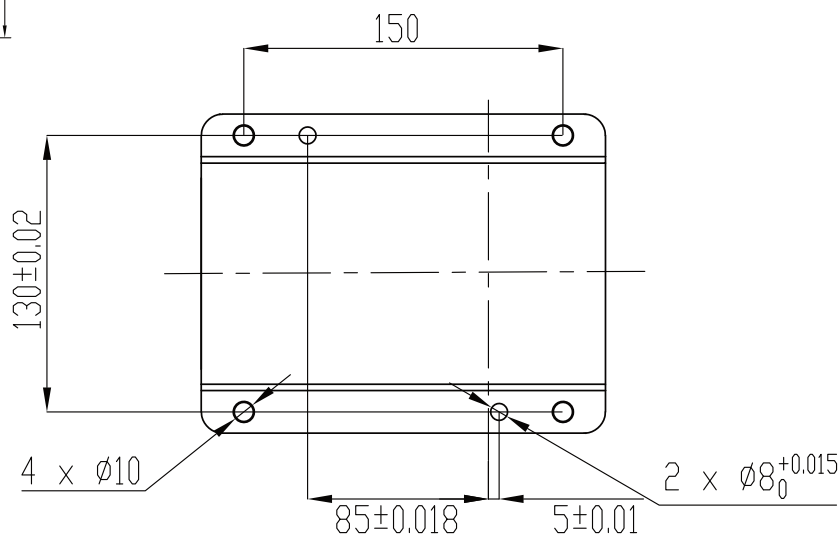
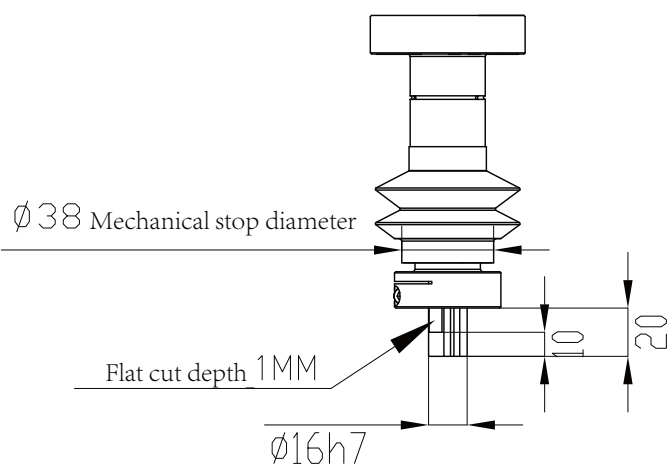
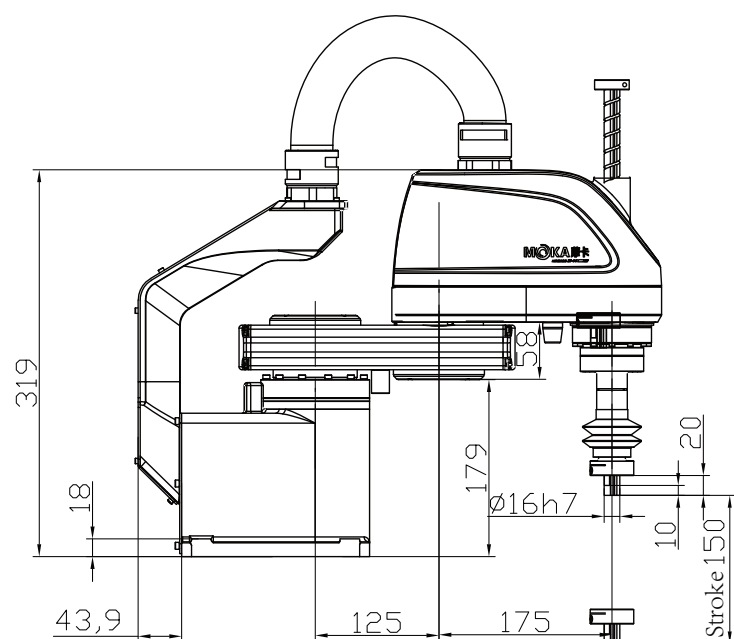
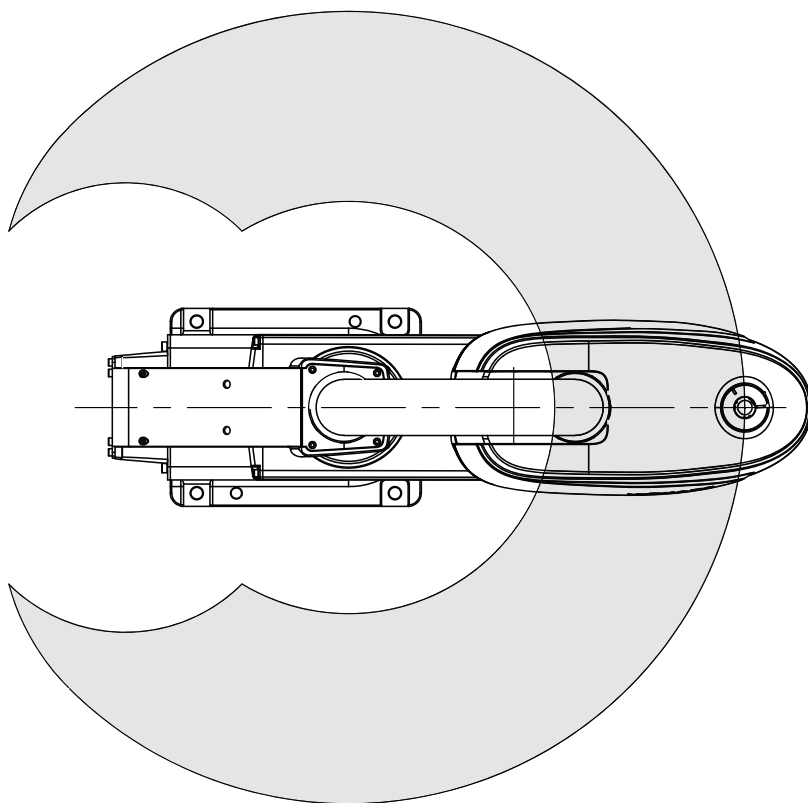
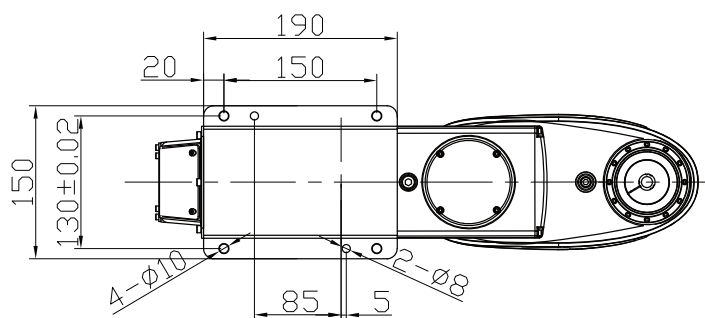
Repeatability



Moving range

External dimensions and moving range

P moving range



End flange installation dimensions

Base installation dimensions



Number of axis	4-axis	Maximum speed		Moving range
Motion radius	400mm	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	15.5KG	Input/Output signals		Standard 16 in/16 out 24 VDC
Built-in air tube	$\Phi 6$	Mounting position		Floor



Installation Environment

Temperature	0-45°C	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 pendant 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 6m. 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



ATTENTION

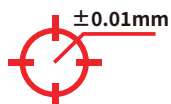
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Max payload



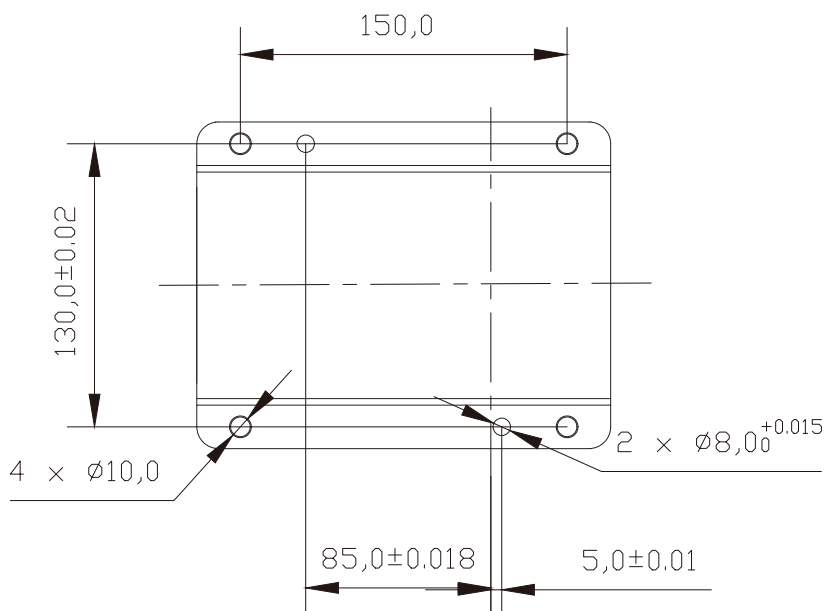
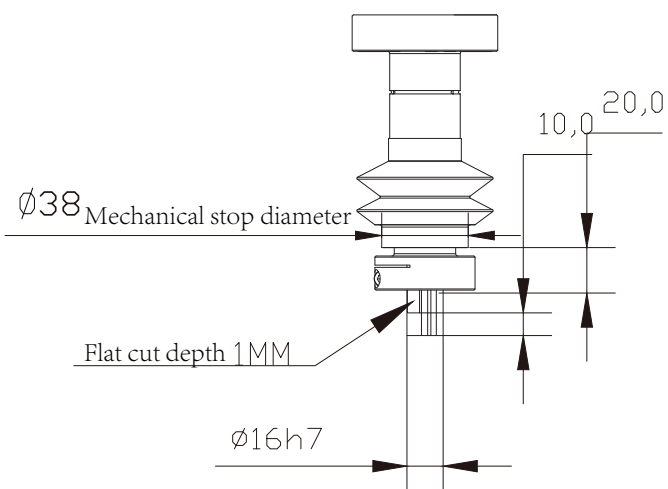
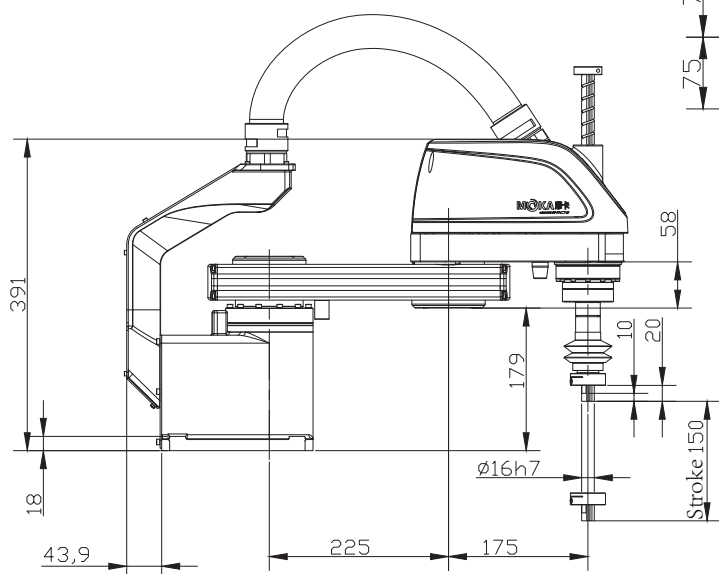
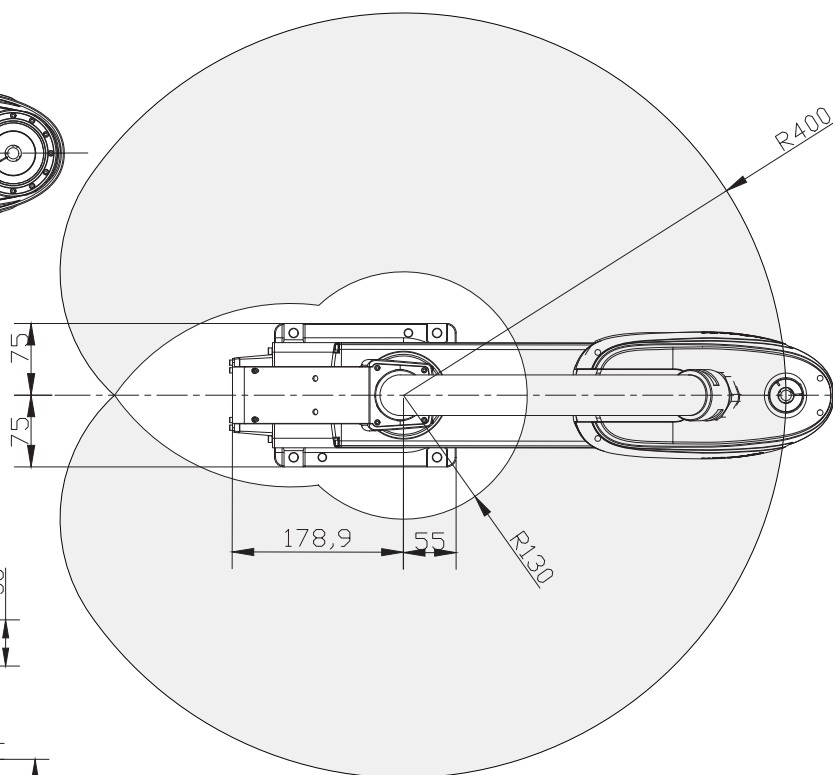
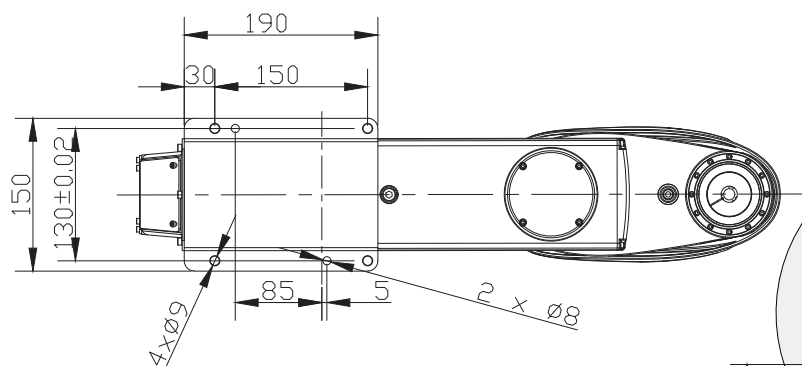
Repeatability



Moving range

External dimensions and moving range

P moving range



End flange installation dimensions

Base installation dimensions

MB10SC-500

PAYLOAD : 5-10KG REPEATABILITY : $\pm 0.02\text{mm}$

MOKA



Number of axis	4-axis		Maximum speed	Moving range
Motion radius	500mm	J1 axis S	J1+J2 7380mm/s	$\pm 135^\circ$
Power capacity	2.0KVA	J2 axis L		$\pm 145^\circ$
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°C	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 6m. 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

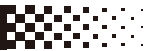


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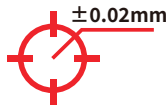
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Max payload



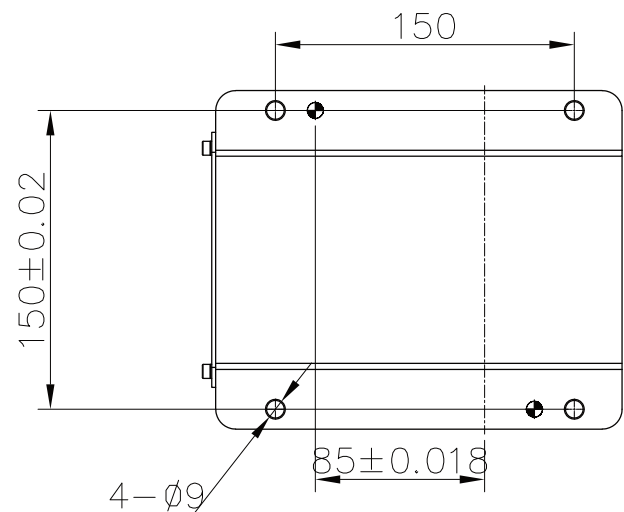
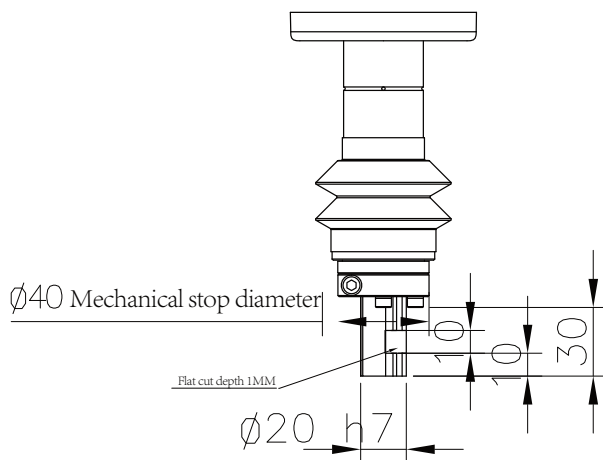
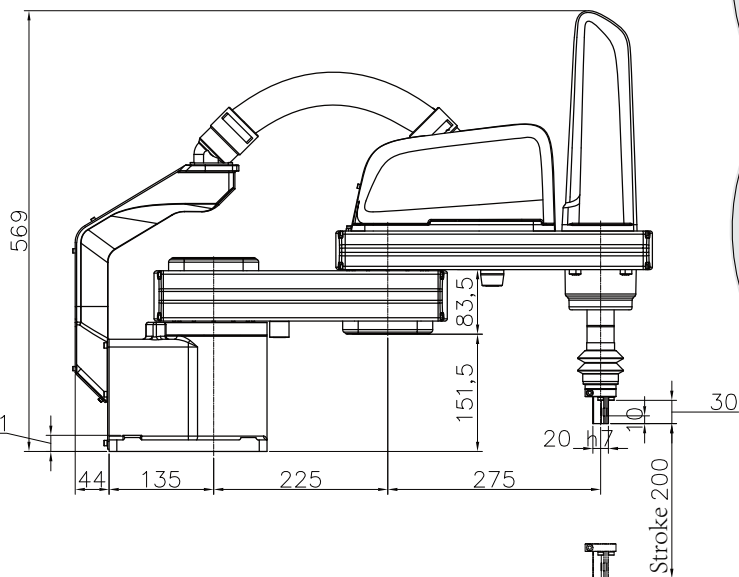
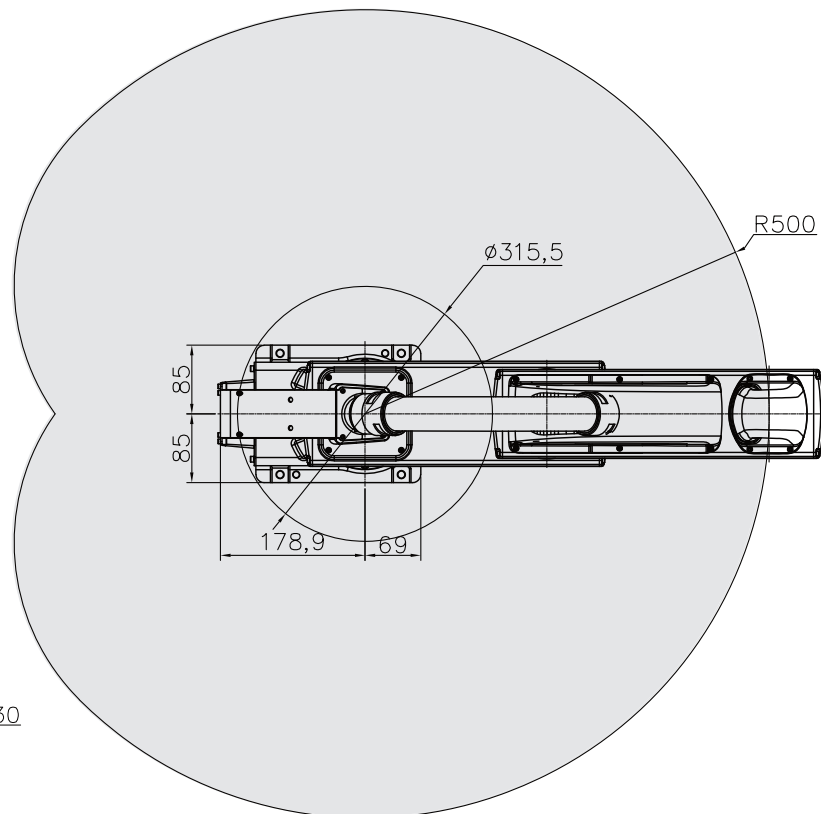
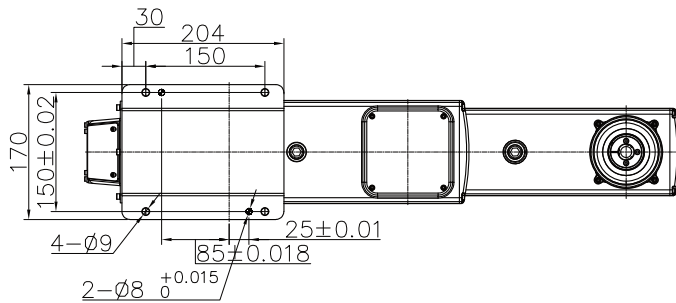
Repeatability



Moving range

External dimensions and moving range

P moving range



End flange installation dimensions

Base installation dimensions



Number of axis	4-axis	Maximum speed	Moving range
Motion radius	600mm	J1 axis S	$\pm 135^\circ$
Power capacity	2.0KVA	J2 axis L	$\pm 150^\circ$
Max payload	Rated 5KG/Max 10KG	J3 axis U	200mm
Repeatability	$\pm 0.02\text{mm}$	J4 axis R	$\pm 360^\circ$
Robot mass	28KG	Input/Output signals	Standard 16 in/16 out 24 VDC
Built-in air tube	$\Phi 6$	Mounting position	Floor

Installation Environment

Temperature	0-45°C	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 6m. 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

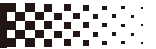


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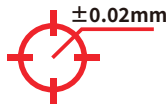
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Max payload



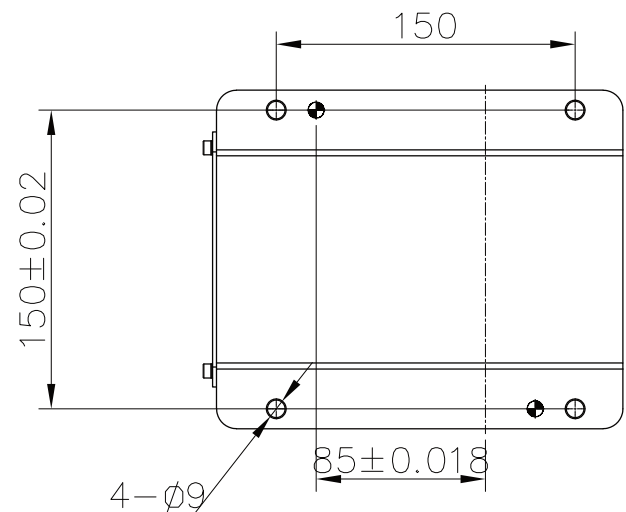
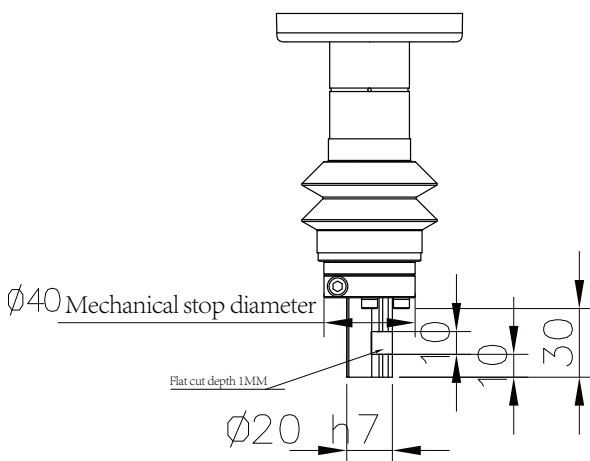
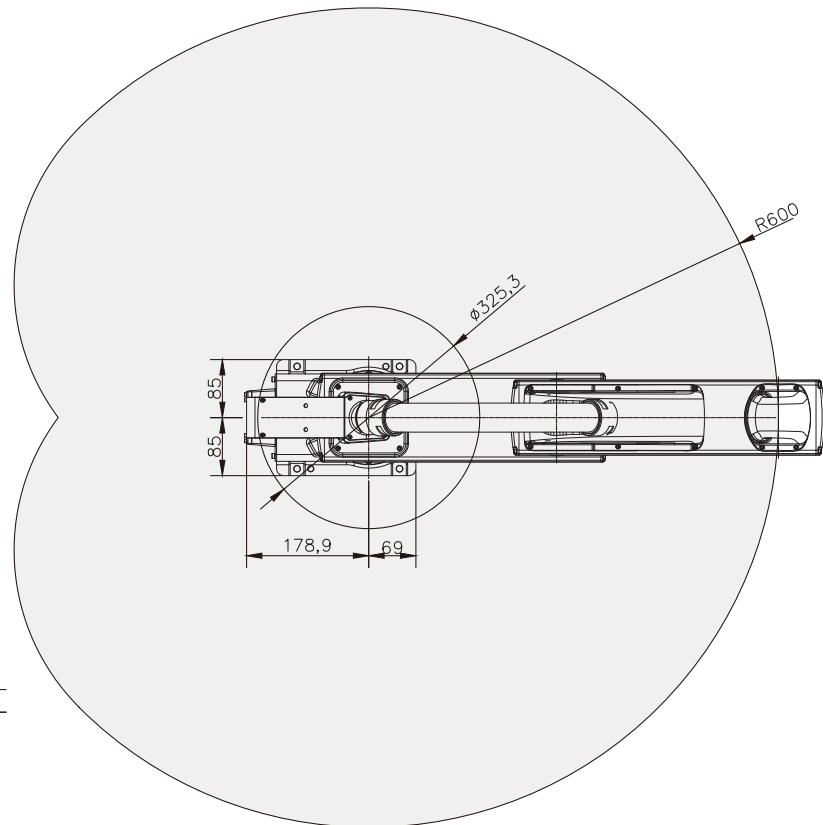
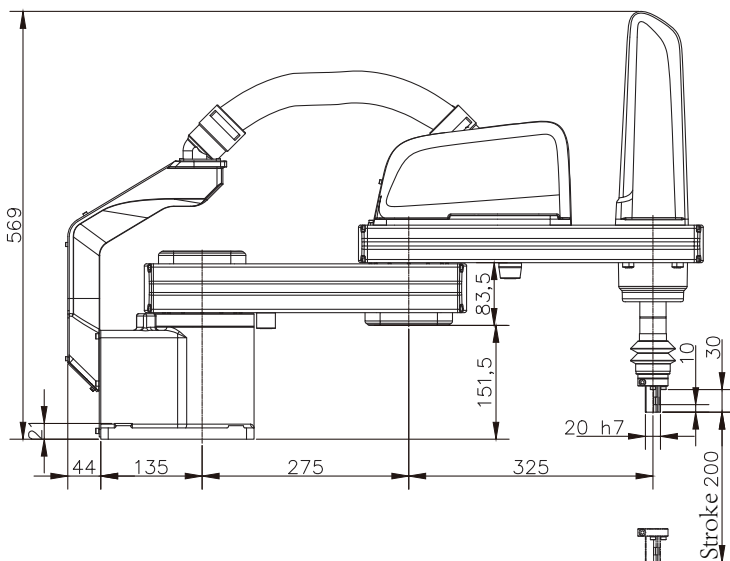
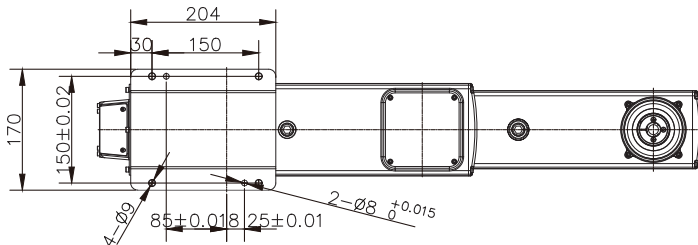
Repeatability



Moving range

External dimensions and moving range

P moving range



End flange installation dimensions

Base installation dimensions



Number of axis	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	$880^\circ/\text{s}$	$\pm 360^\circ$
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°C	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 6m. 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

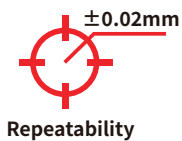


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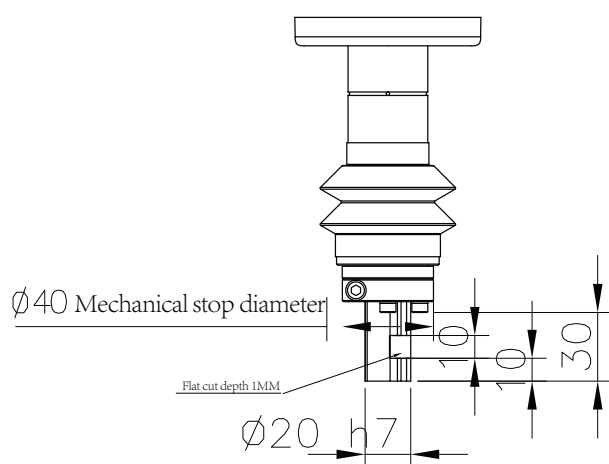
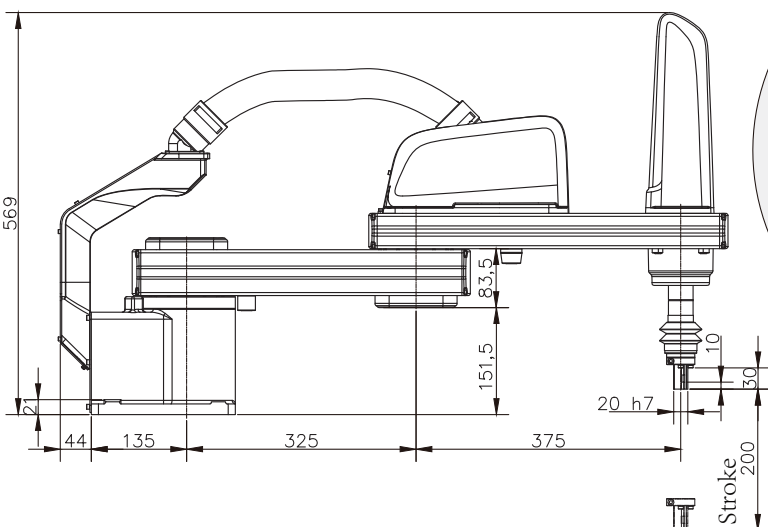
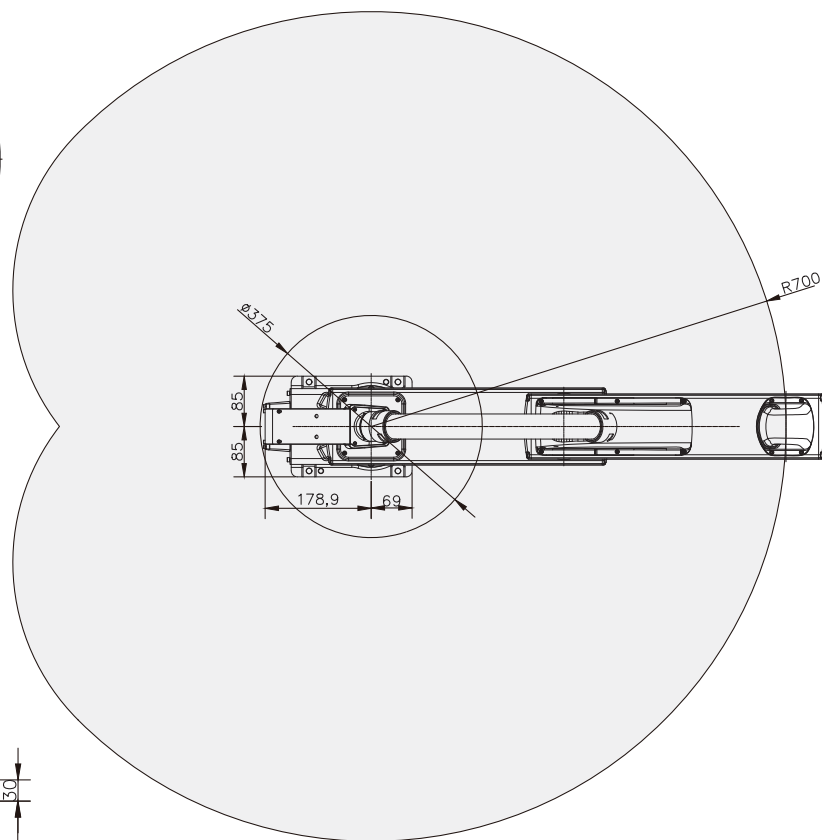
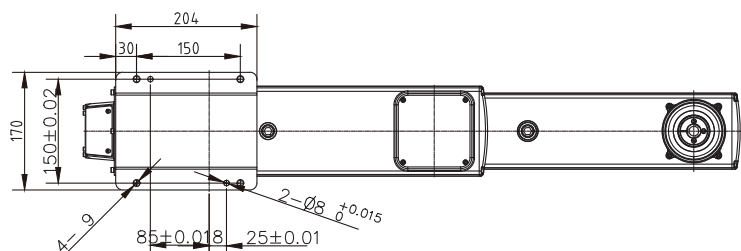
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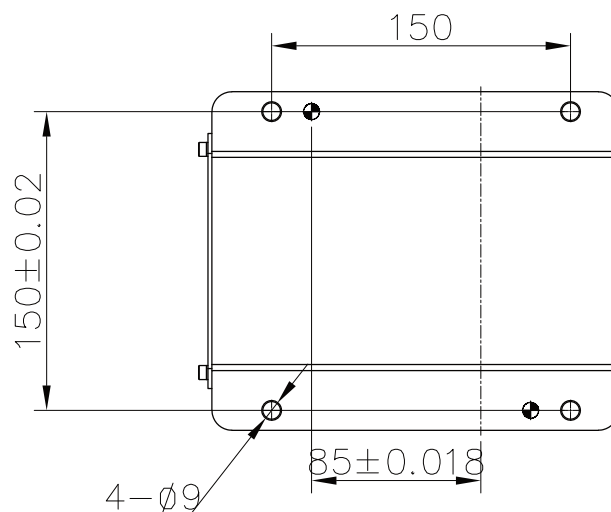


External dimensions and moving range

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	$\pm 135^\circ$
Power capacity	3.0KVA	J2 axis L		$\pm 150^\circ$
Max payload	Rated 10KG/Max 25KG	J3 axis U	2020mm/s	420mm
Repeatability	$\pm 0.025\text{mm}$	J4 axis R	$720^\circ/\text{s}$	$\pm 360^\circ$
Robot mass	63KG	Input/Output signals		Standard 16 in/16 out 24 VDC
Built-in air tube	$\phi 8$	Mounting position		Floor



Installation Environment

Temperature	0-45°C	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 6m. 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



ATTENTION

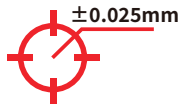
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Max payload



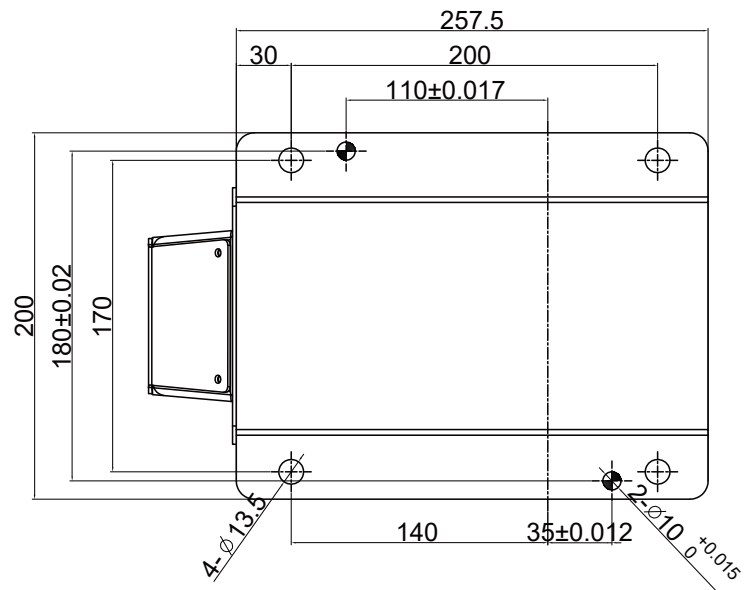
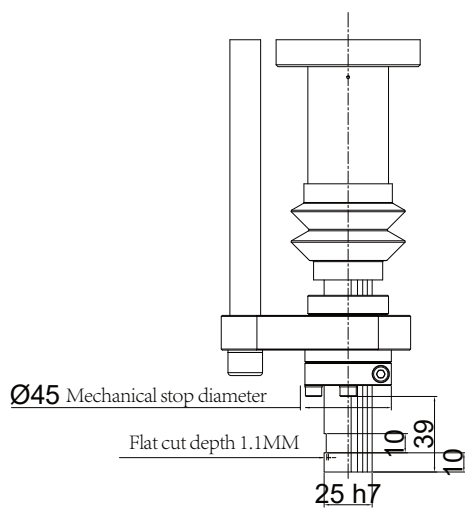
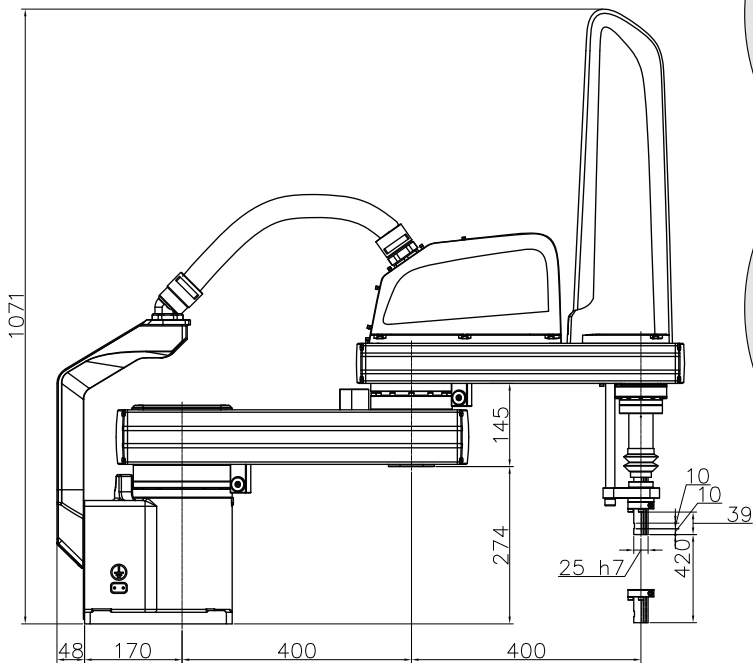
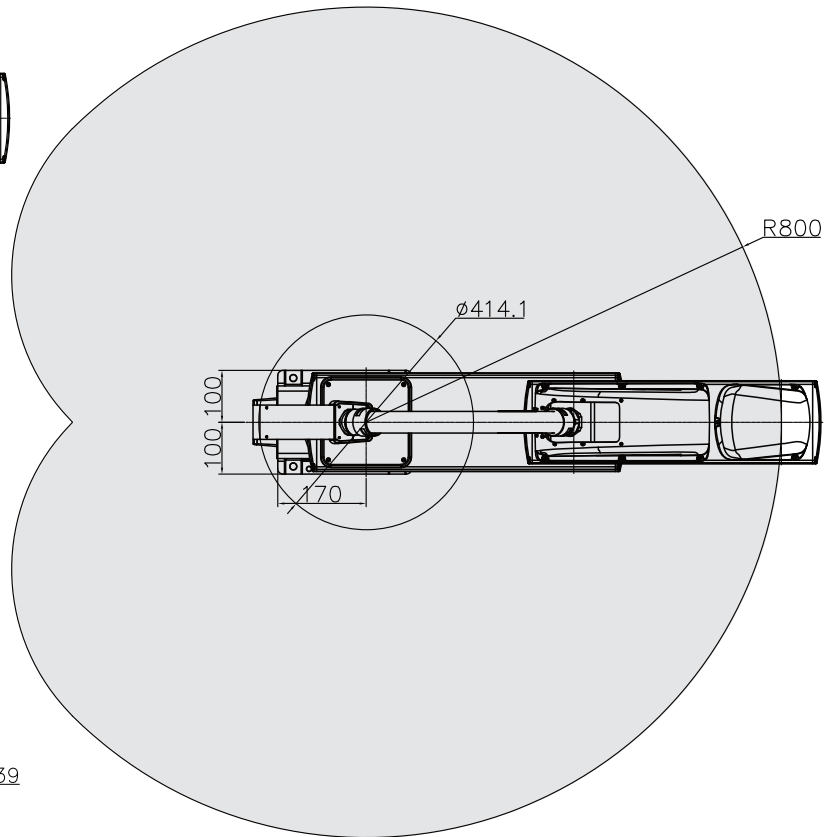
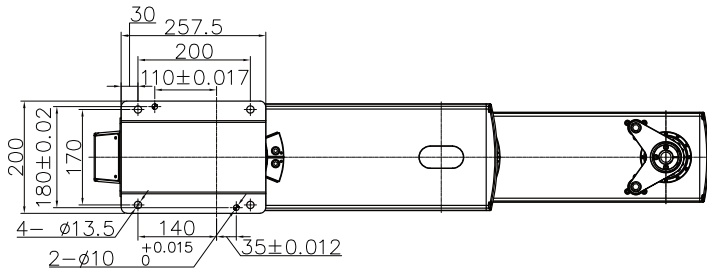
Repeatability



Moving range

External dimensions and moving range

P moving range



End flange installation dimensions

Base installation dimensions



Number of axis	4-axis	Maximum speed	Moving range
Motion radius	900mm	J1 axis S	$\pm 135^\circ$
Power capacity	3.0KVA	J2 axis L	$\pm 150^\circ$
Max payload	Rated 10KG/Max 25KG	J3 axis U	420mm
Repeatability	$\pm 0.025\text{mm}$	J4 axis R	$\pm 360^\circ$
Robot mass	64.5KG	Input/Output signals	Standard 16 in/16 out 24 VDC
Built-in air tube	$\Phi 8$	Mounting position	Floor

Installation Environment

Temperature	0-45°C	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 pendant 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 6m. 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

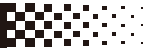


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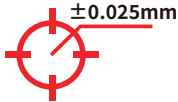
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25KG

Max payload



$\pm 0.025\text{mm}$

Repeatability

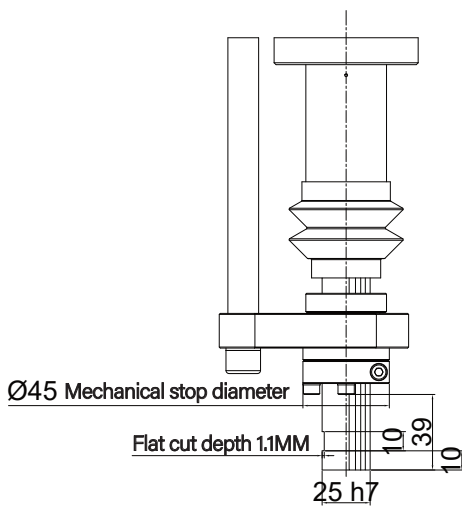
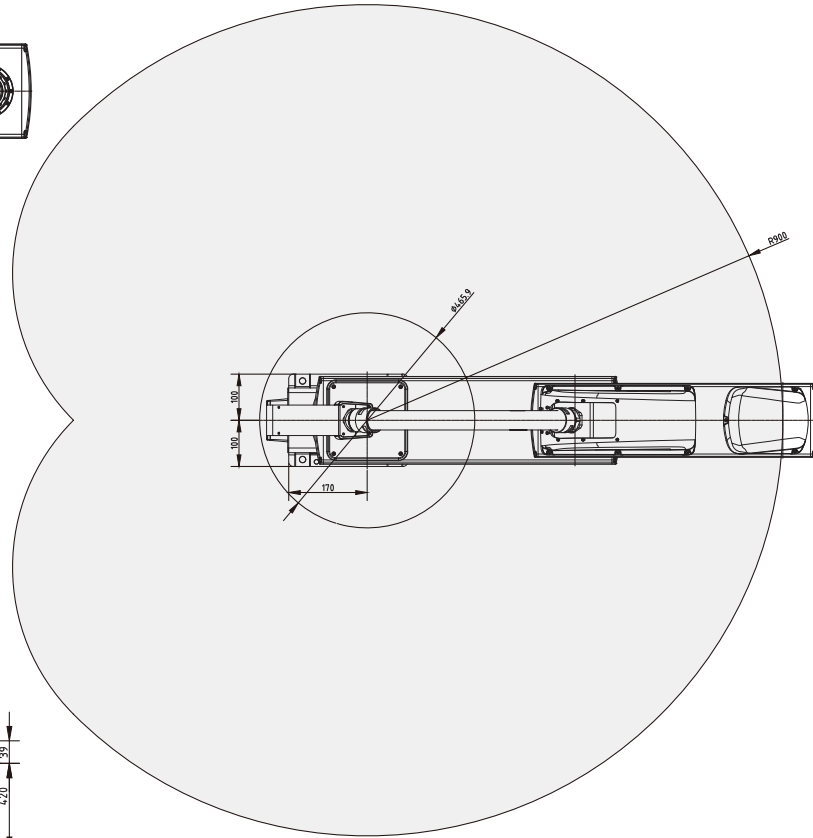
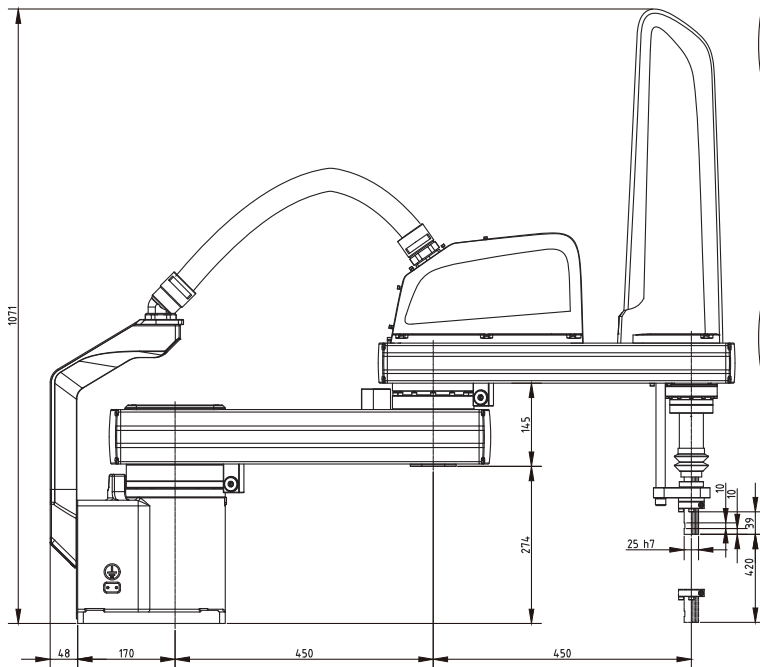
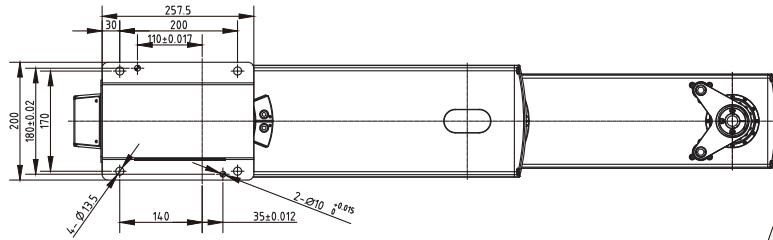


900mm

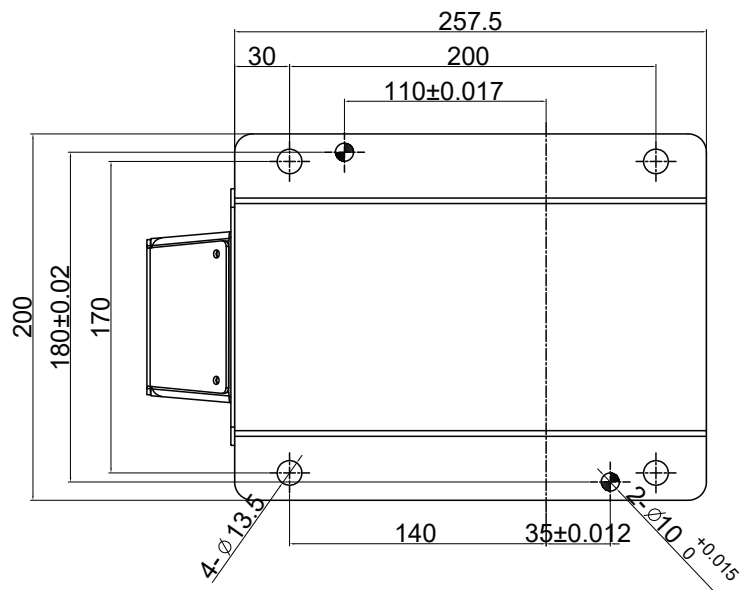
Moving range

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	1000mm	J1 axis S	J1+J2	$\pm 135^\circ$
Power capacity	3.0KVA	J2 axis L	11520mm/s	$\pm 150^\circ$
Max payload	Rated 10KG/Max 25KG	J3 axis U	2020mm/s	420mm
Repeatability	$\pm 0.025\text{mm}$	J4 axis R	720°/s	$\pm 360^\circ$
Robot mass	66KG	Input/Output signals		Standard 16 in/16 out 24 VDC
Built-in air tube	$\Phi 8$	Mounting position		Floor

Installation Environment

Temperature	0-45°C	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 pendant 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 6m. 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

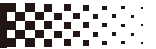


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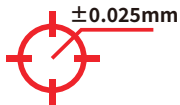
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Max payload



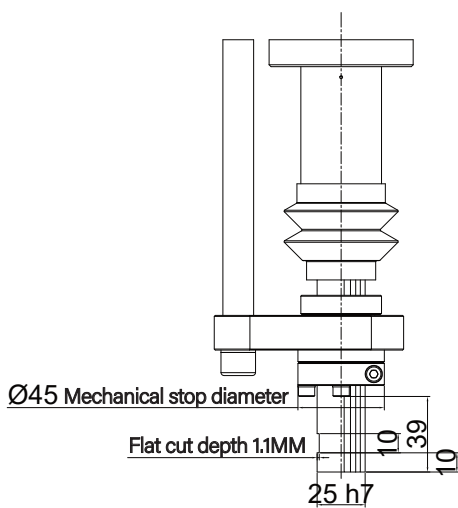
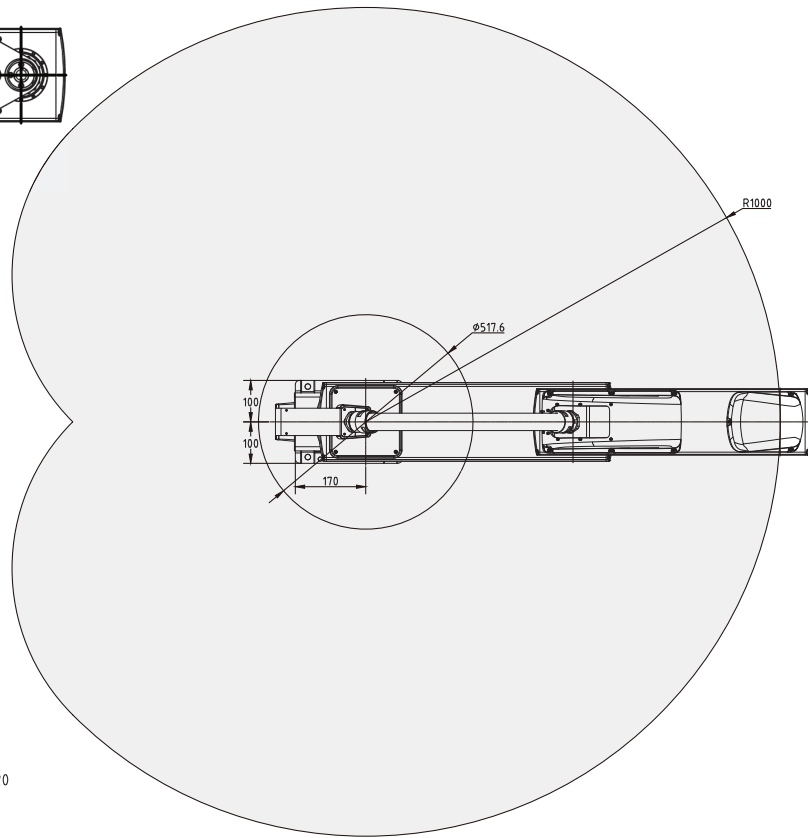
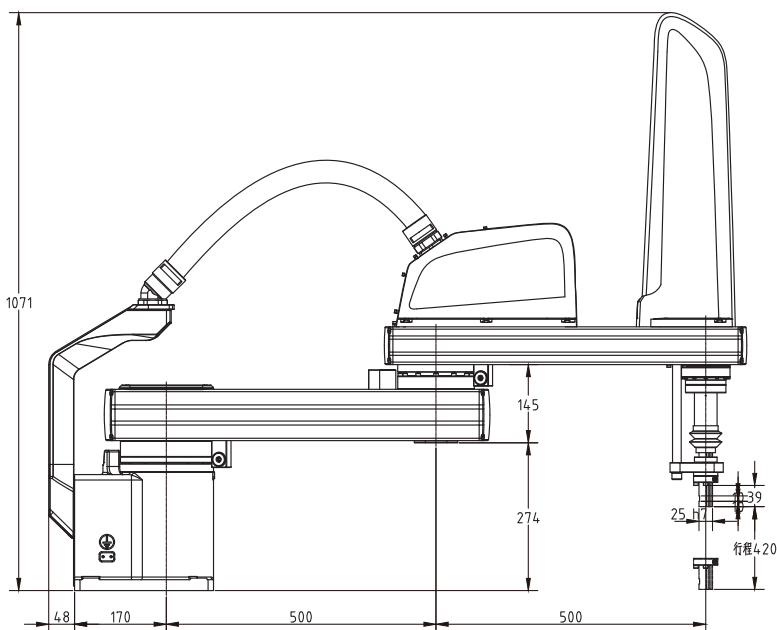
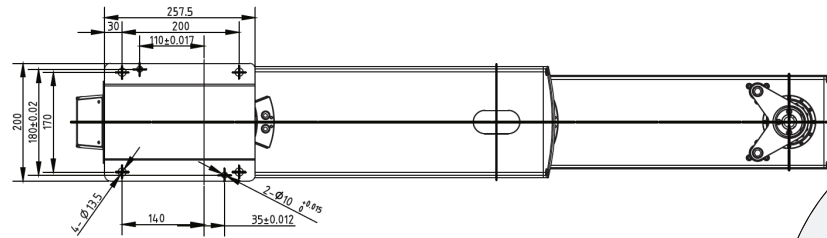
Repeatability



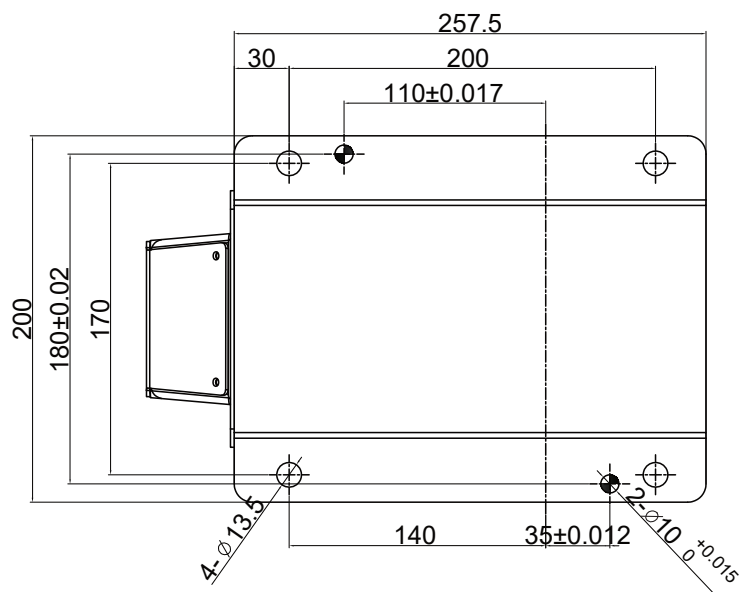
Moving range

External dimensions and moving range

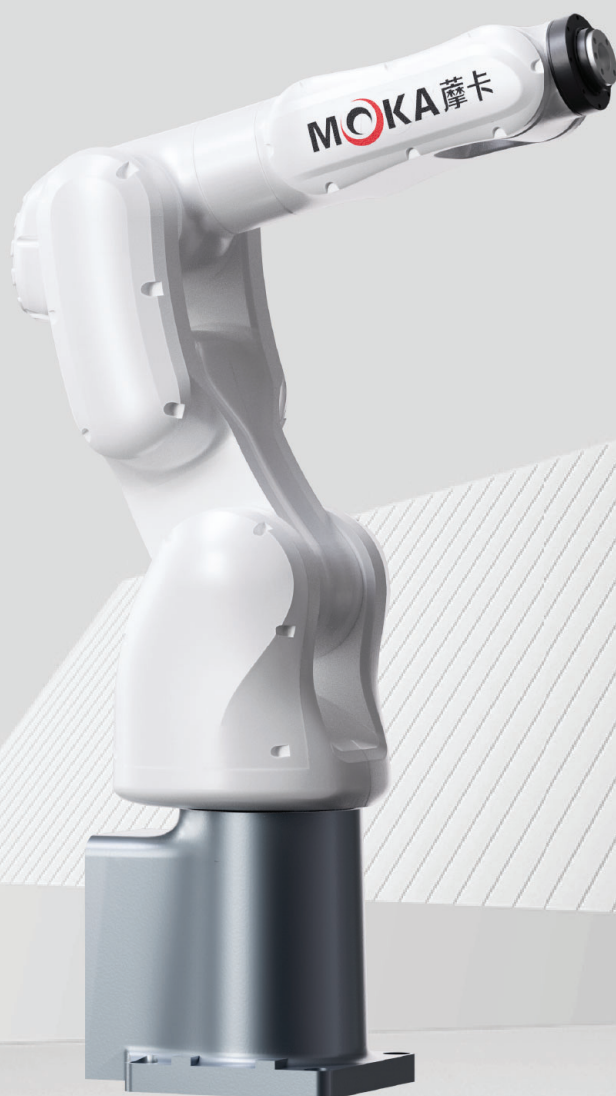
P moving range



End flange installation dimensions



Base installation dimensions



Axis	6 axis		Maximum speed	Movement range
Motion radius	580mm	J1 axis S	480°/s	$\pm 170^\circ$
Power capacity	2.0KVA	J2 axis L	460°/s	$-150^\circ \sim +90^\circ$
Payload	4KG	J3 axis U	520°/s	$-70^\circ \sim +200^\circ$
Repeatability	$\pm 0.02\text{mm}$	J4 axis R	560°/s	$\pm 190^\circ$
Robot mass	27KG	J5 axis B	560°/s	$\pm 125^\circ$
Built-in air tube	$\Phi 6$	J6 axis T	880°/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°C	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 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(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:6m 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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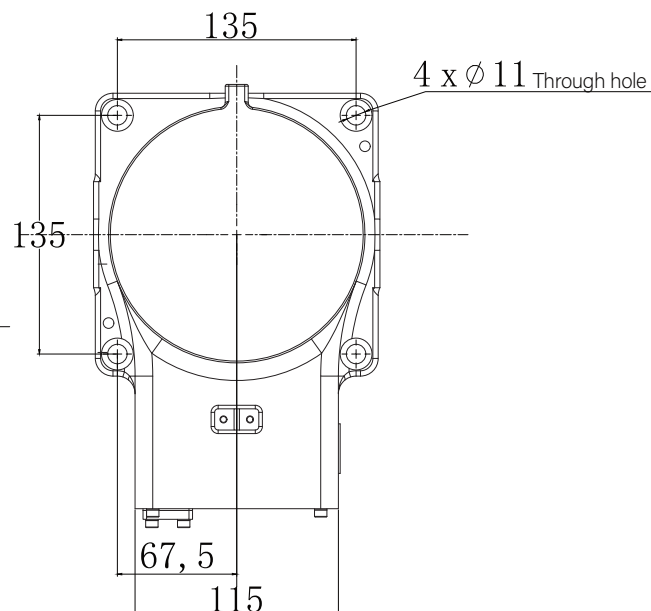
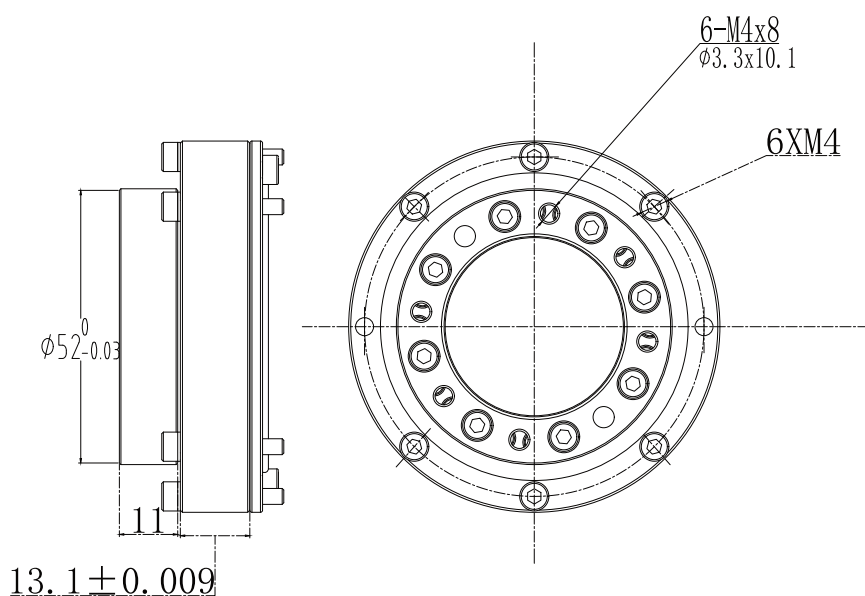
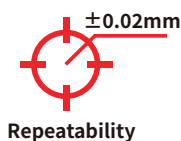
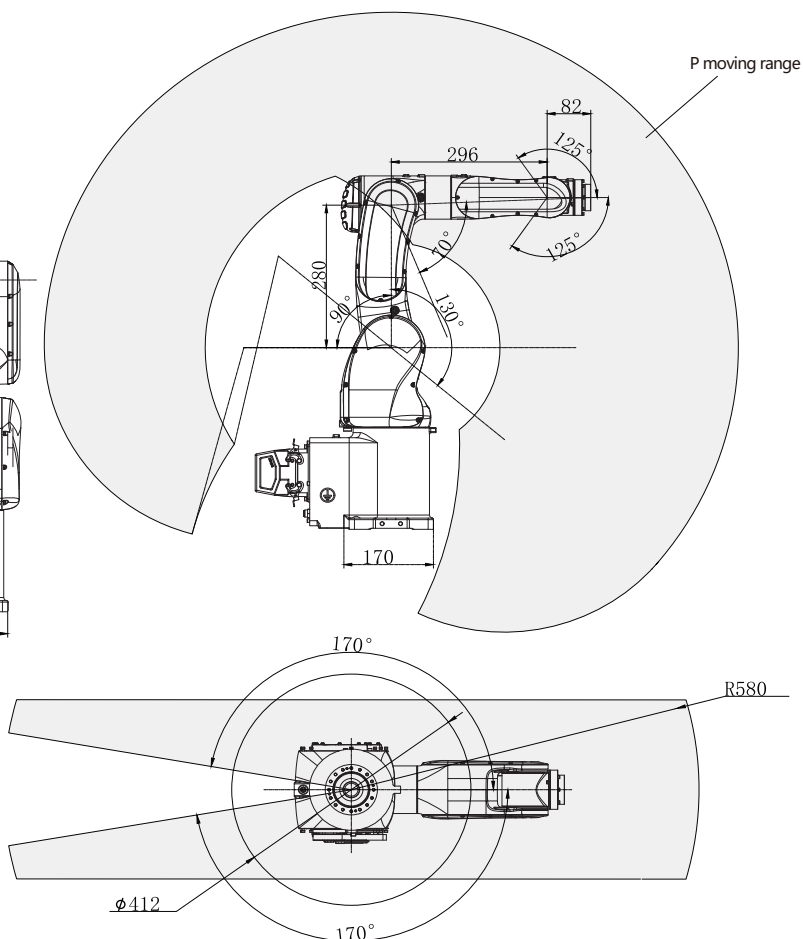
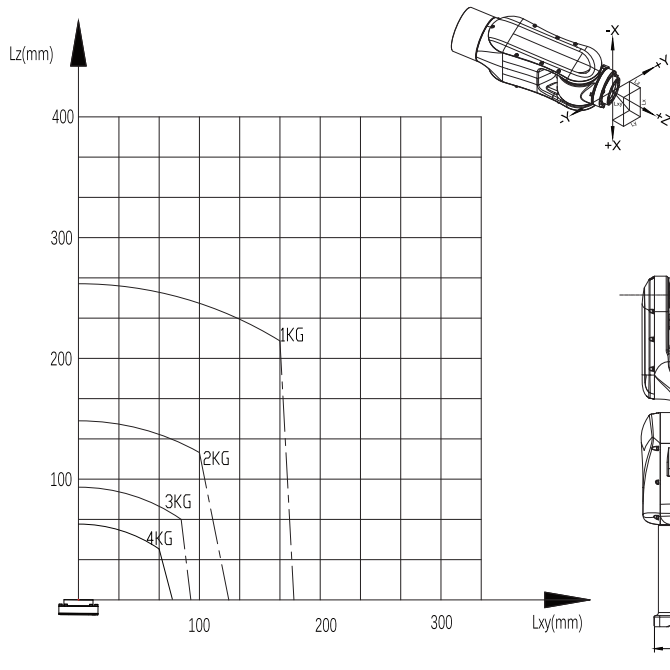
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Robot payload diagram

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	740mm	J1 axis S	300°/s	$\pm 170^\circ$
Power capacity	3.0KVA	J2 axis L	300°/s	$-140^\circ \sim +80^\circ$
Max Payload	10KG	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	45KG	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°C	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: 6m 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



ATTENTION

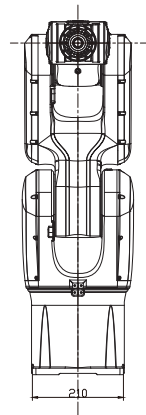
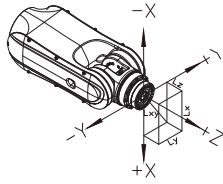
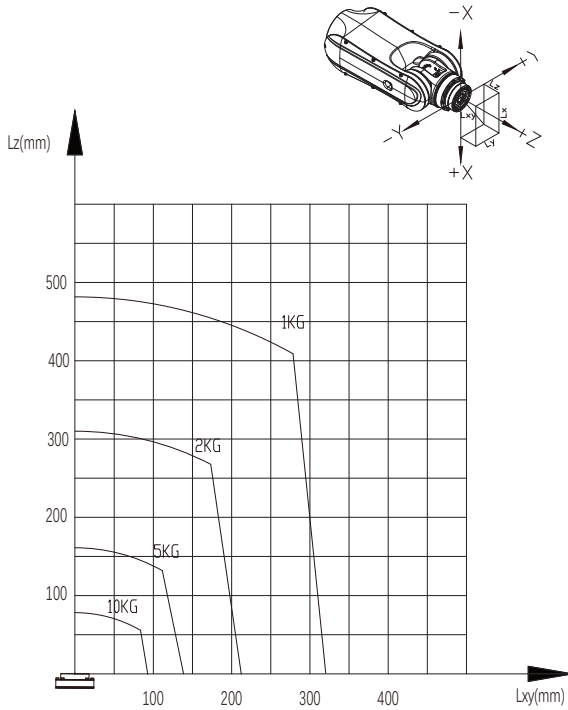
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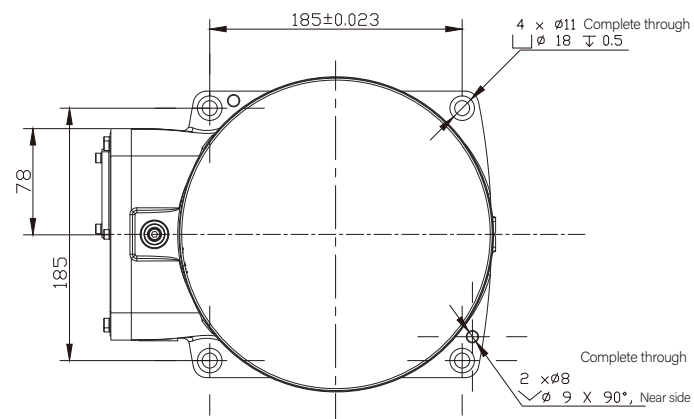
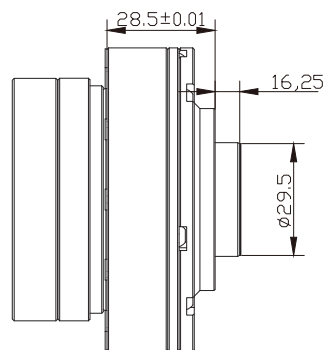
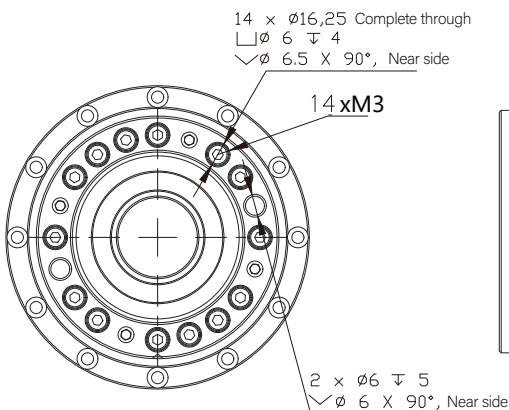
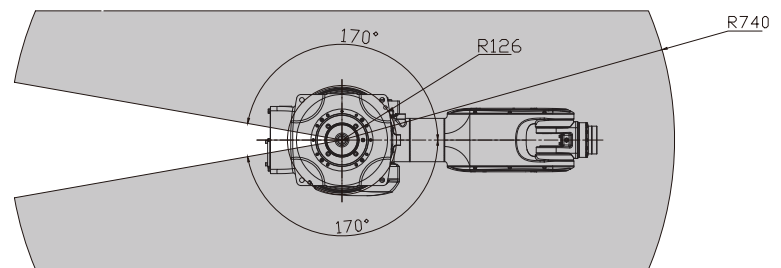
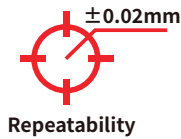
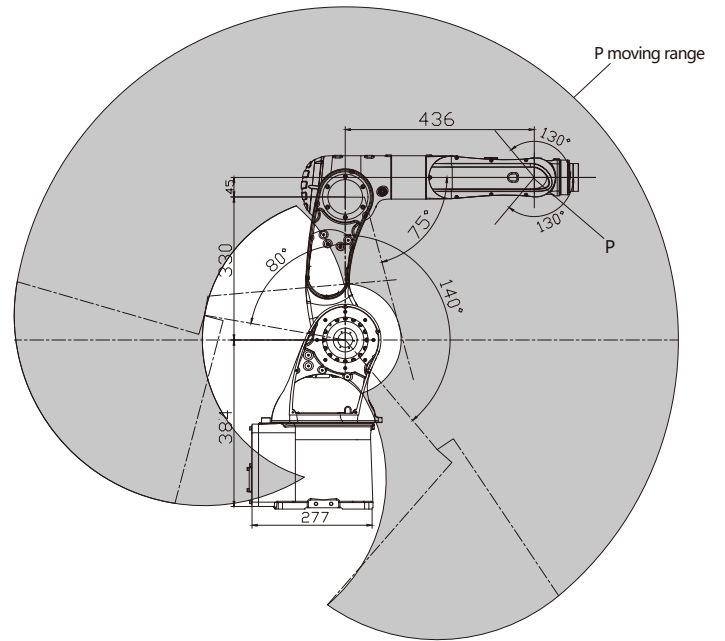


Robot payload diagram



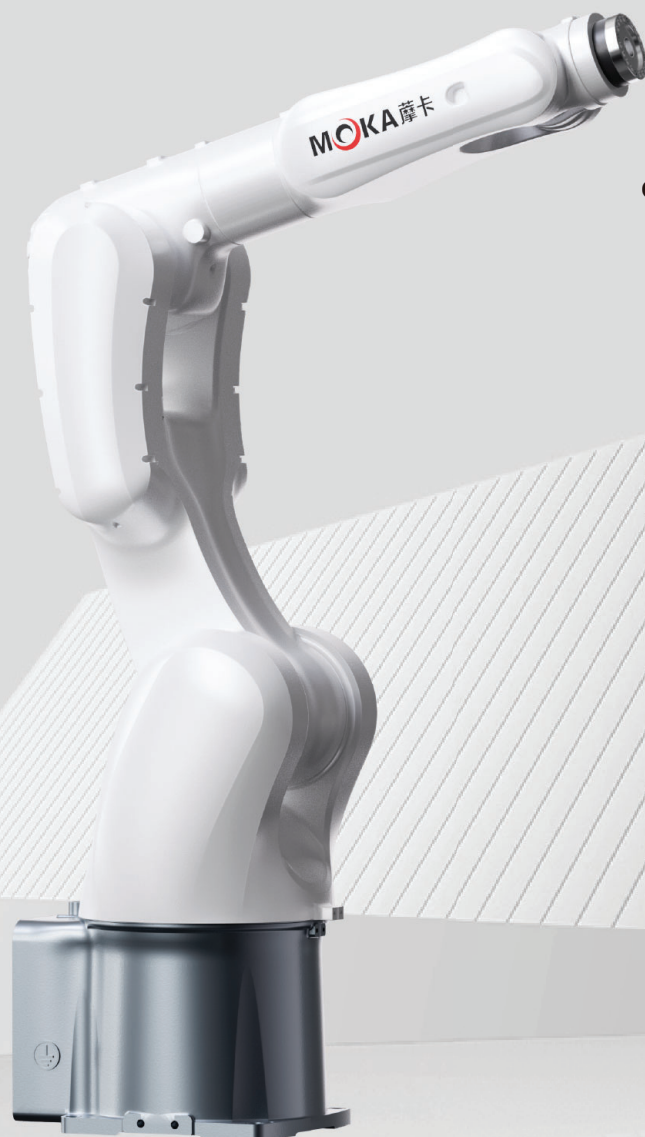
External dimensions and moving range

P moving range



End flange installation dimensions

Base installation dimensions



Number of axis	6-axis		Maximum speed	Moving range
Motion radius	920mm	J1 axis S	300°/s	$\pm 170^\circ$
Power capacity	3.0KVA	J2 axis L	300°/s	$-140^\circ \sim +80^\circ$
Max Payload	10KG	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	47KG	J5 axis B	560°/s	$\pm 130^\circ$
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°C	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: 6m 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



ATTENTION

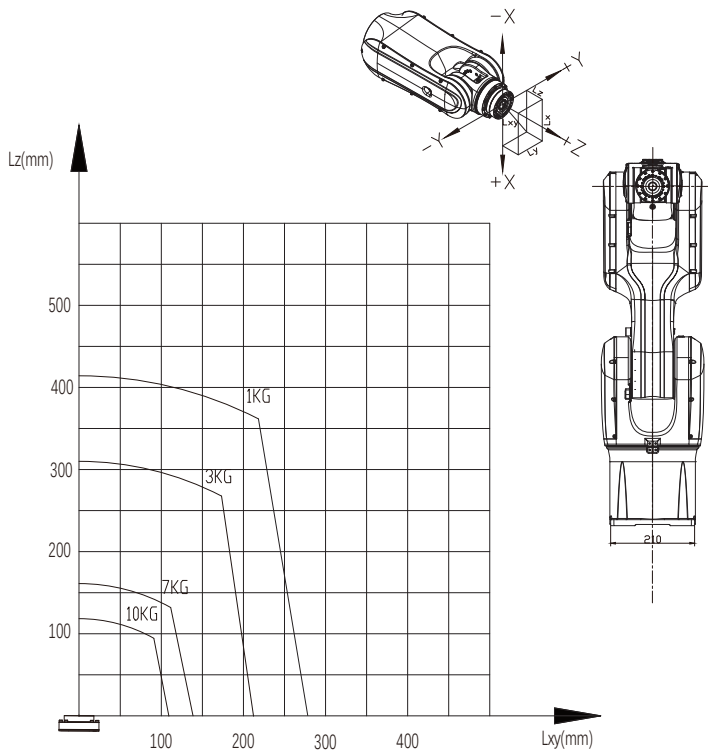
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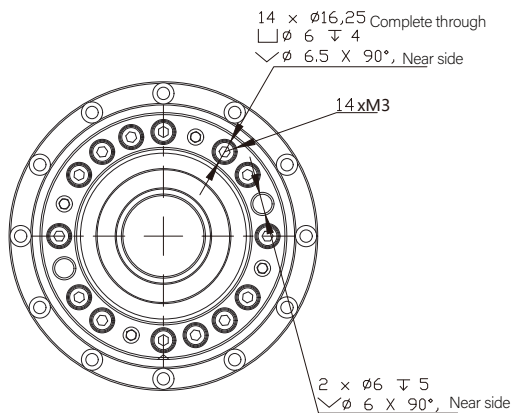
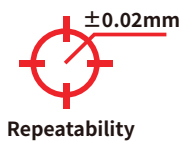
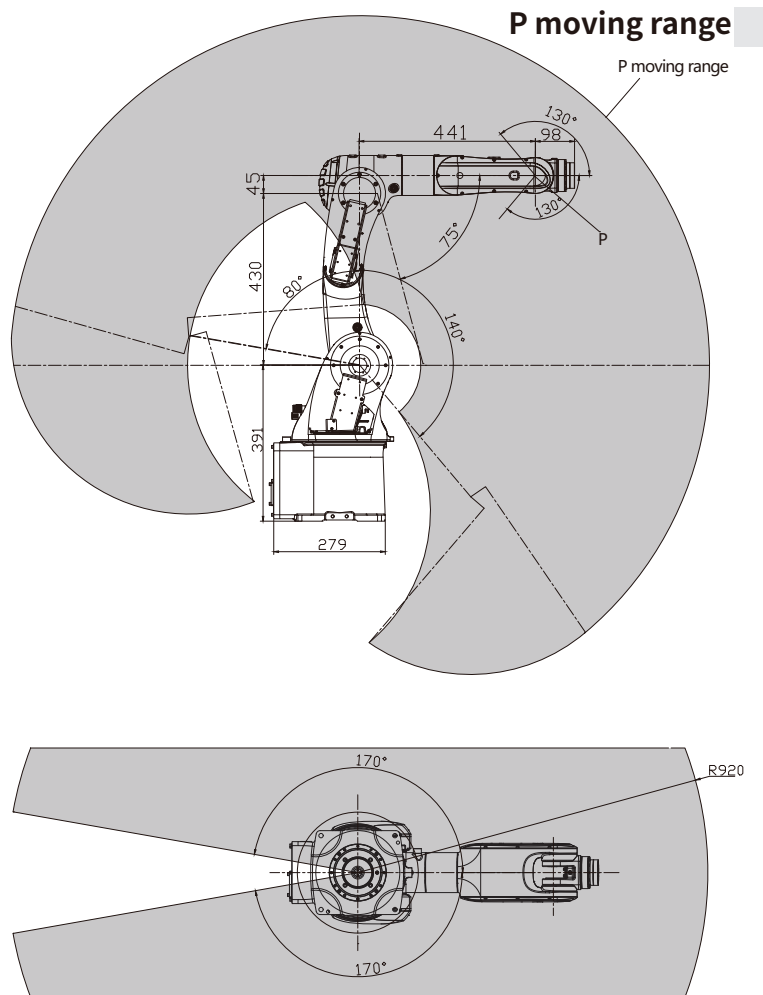
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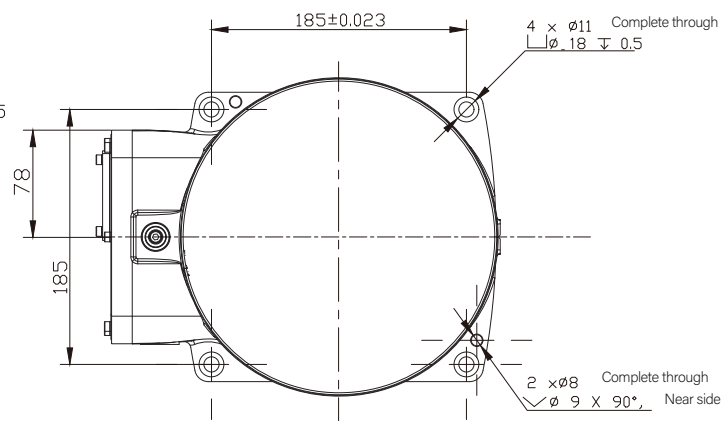
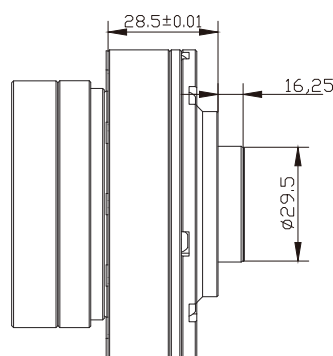
Robot payload diagram



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	$\pm 180^\circ$
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	$\pm 200^\circ$
Repeatability	$\pm 0.03\text{mm}$	J5 axis B	405°/s	+40°~-220°
Robot mass	264KG	J6 axis T	650°/s	$\pm 360^\circ$
Built-in air tube	$\Phi 8$	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°C	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: 6m 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



ATTENTION

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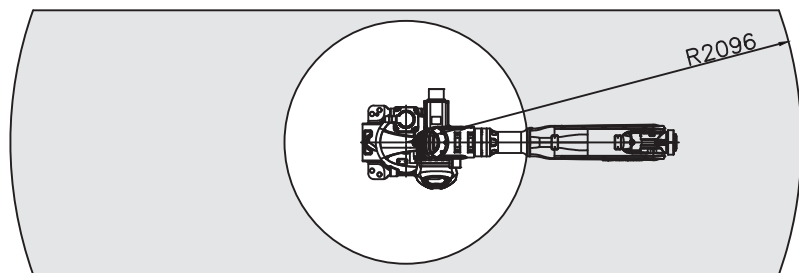
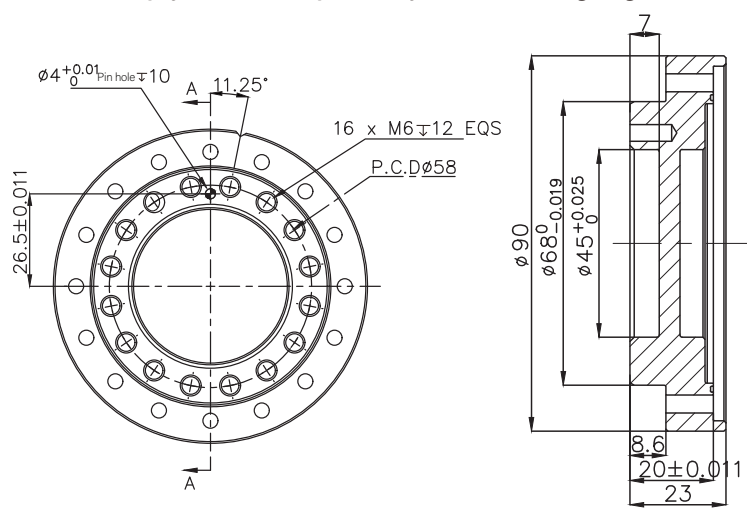
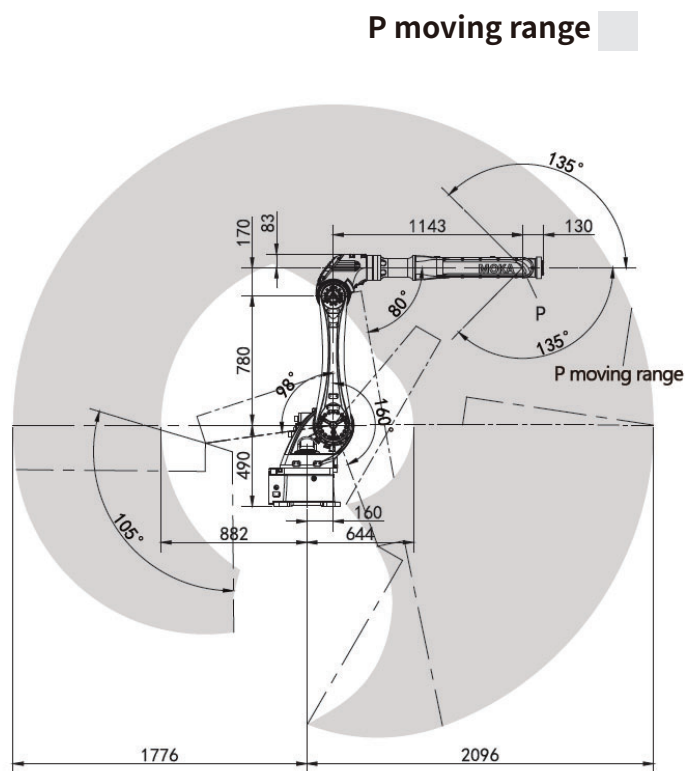
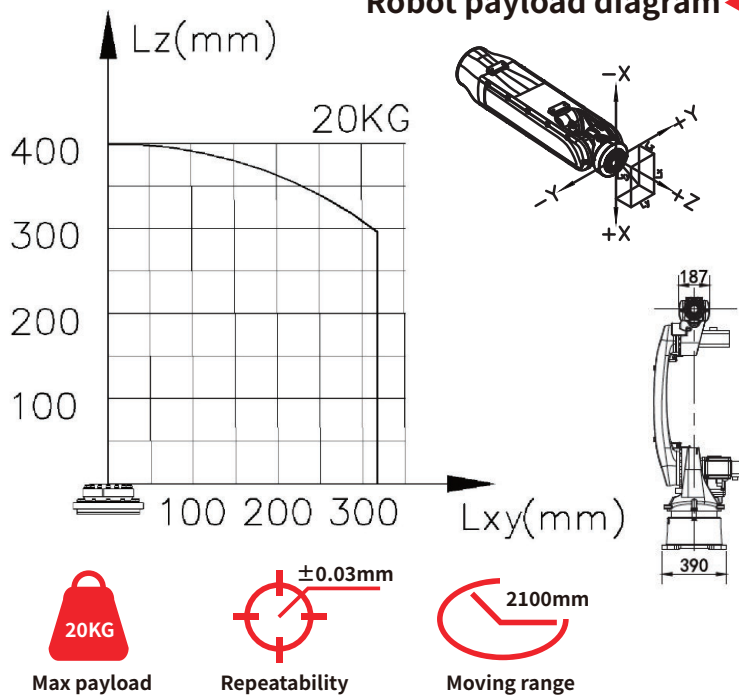
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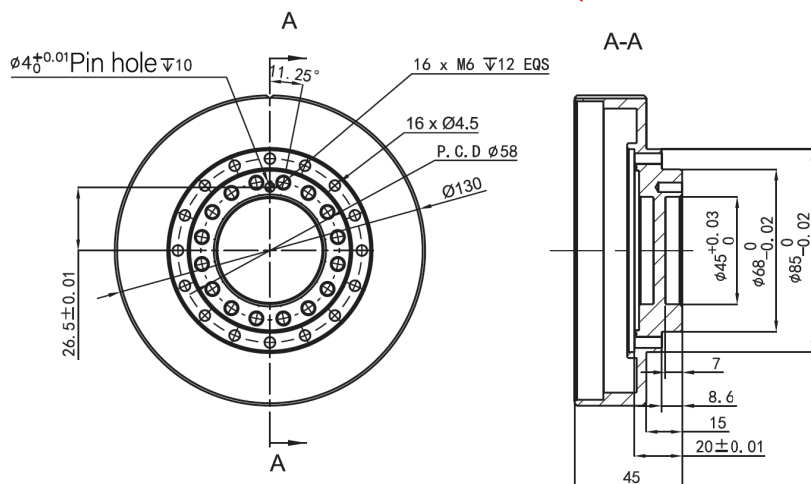


Robot payload diagram

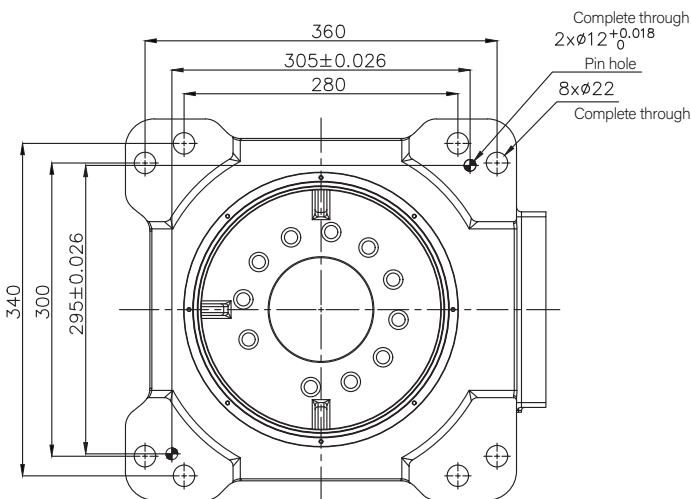
External dimensions and moving range



End flange installation dimensions



End flange installation dimensions(Waterproof)



Base installation dimensions



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°C	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 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: 6m 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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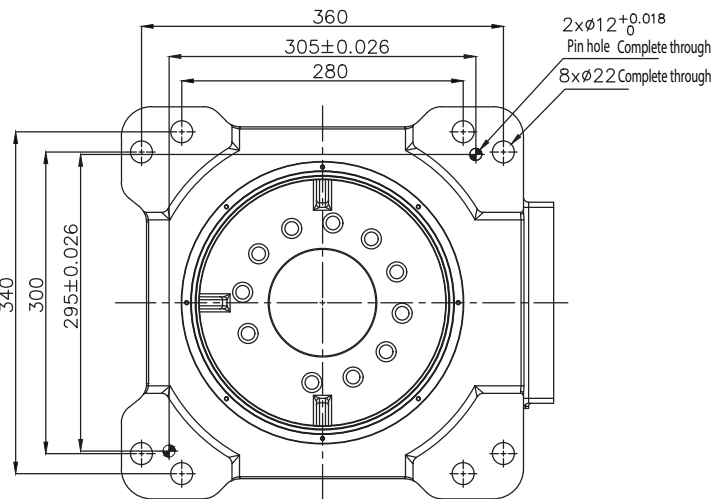
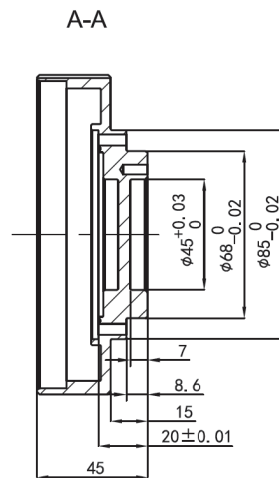
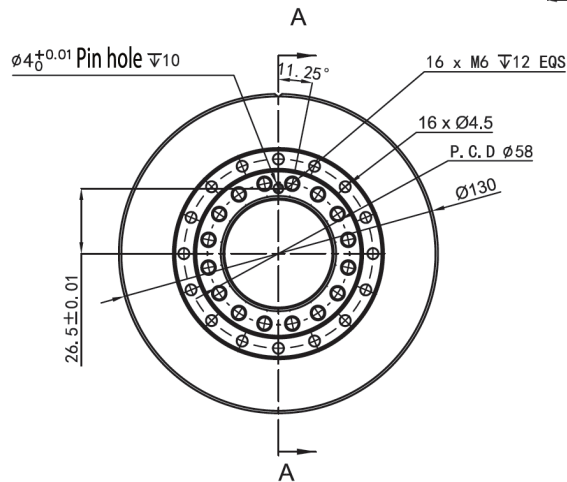
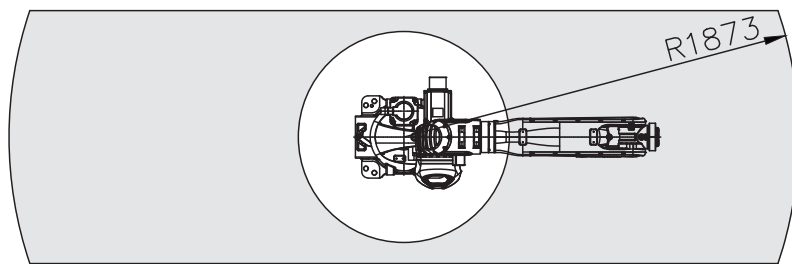
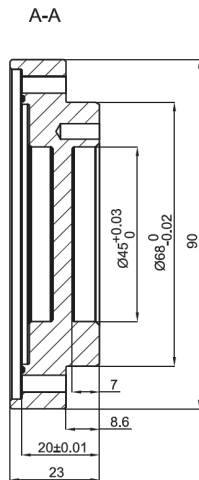
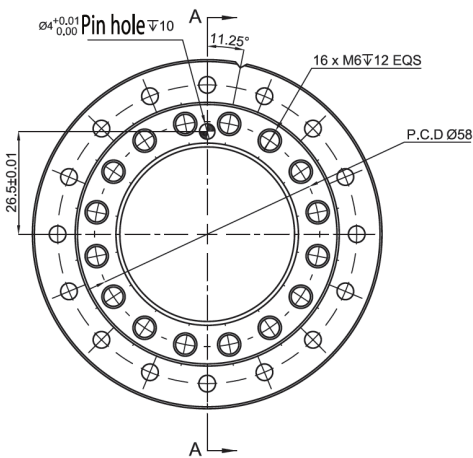
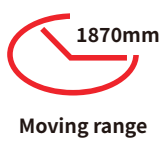
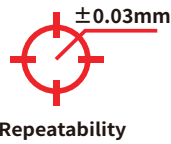
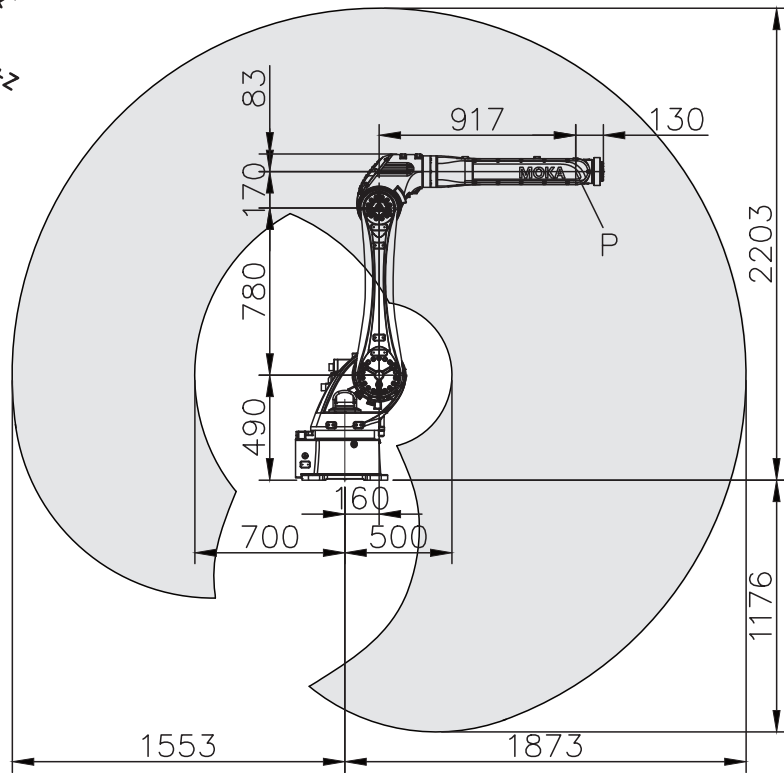
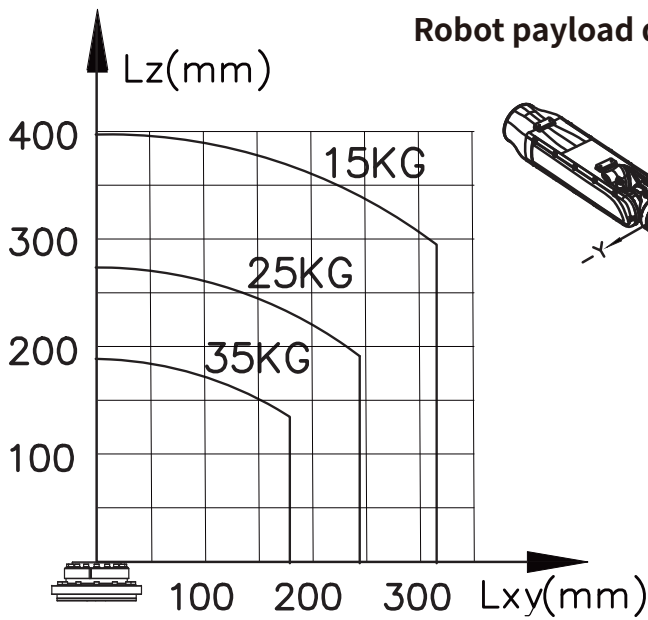
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Robot payload diagram

External dimensions and moving range

P moving range



End flange installation dimensions

Base installation dimensions

(waterproof, only for polishing & die-casting applications)



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°C	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: 6m 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

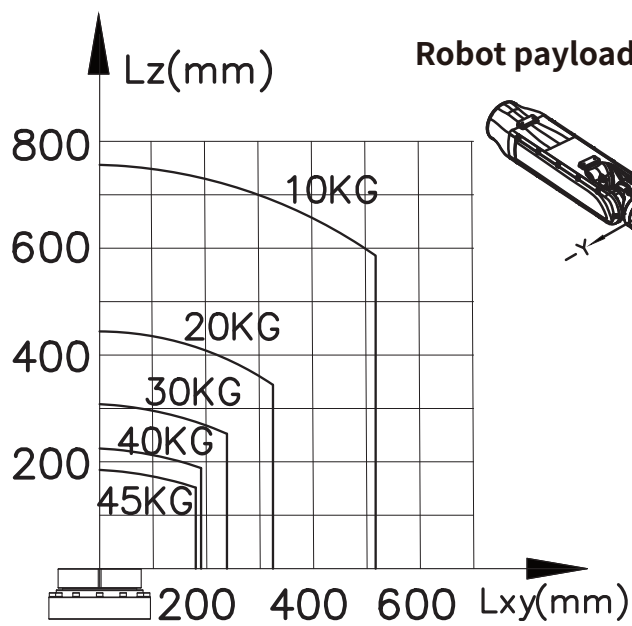


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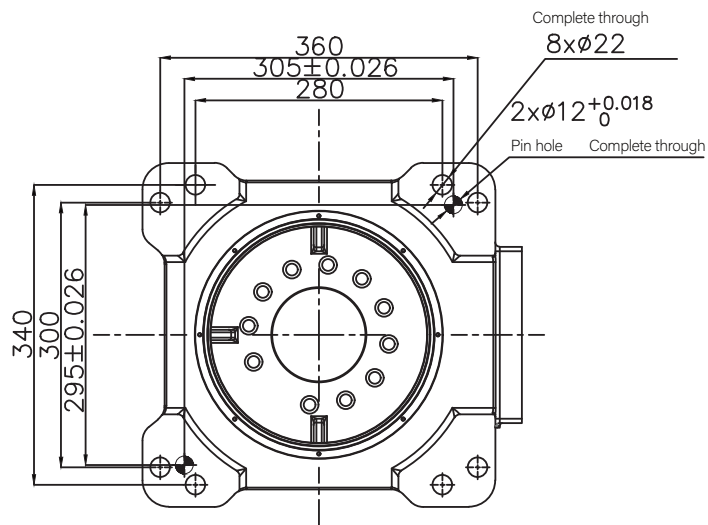
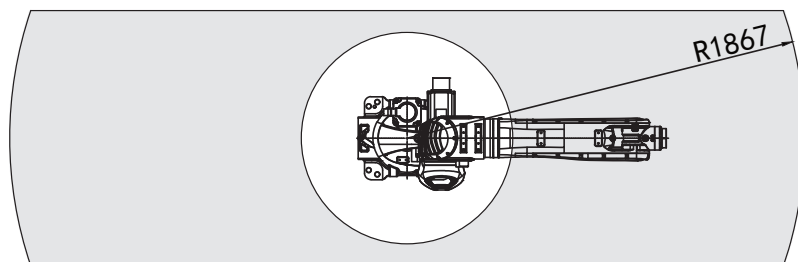
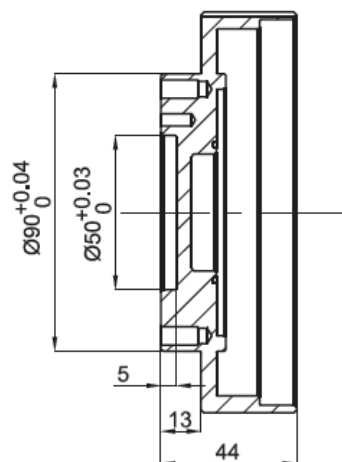
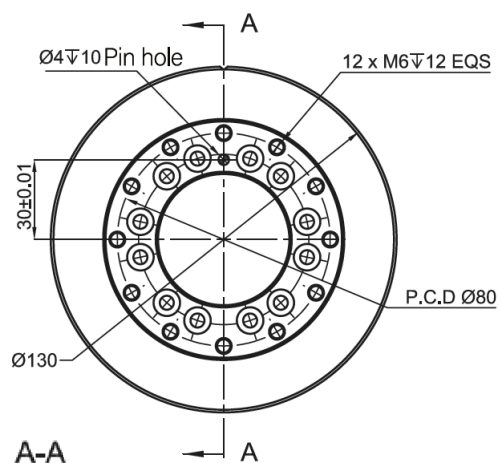
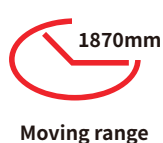
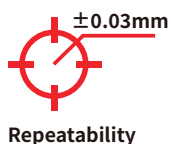
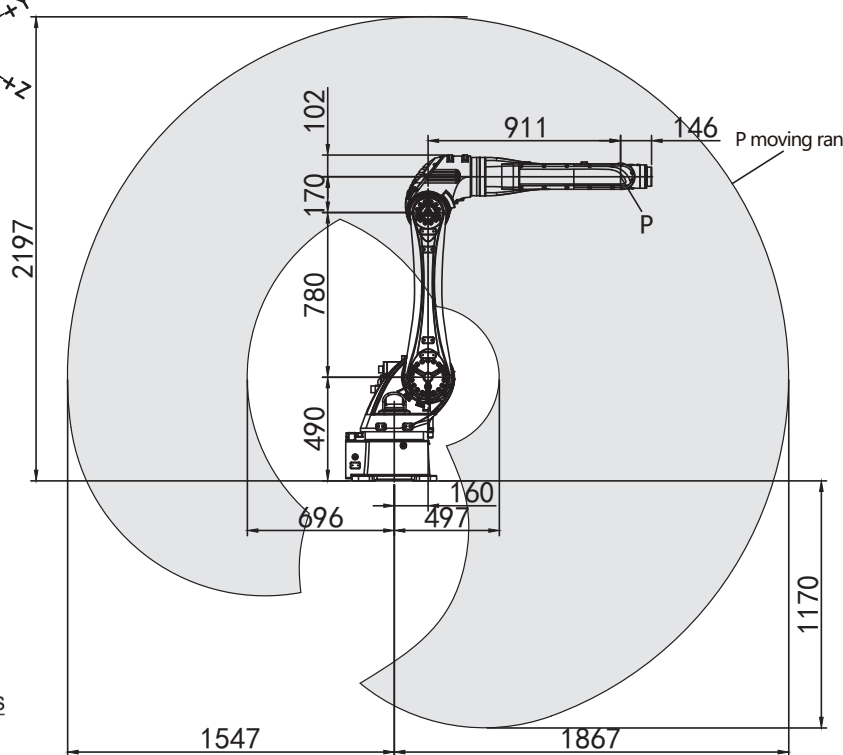
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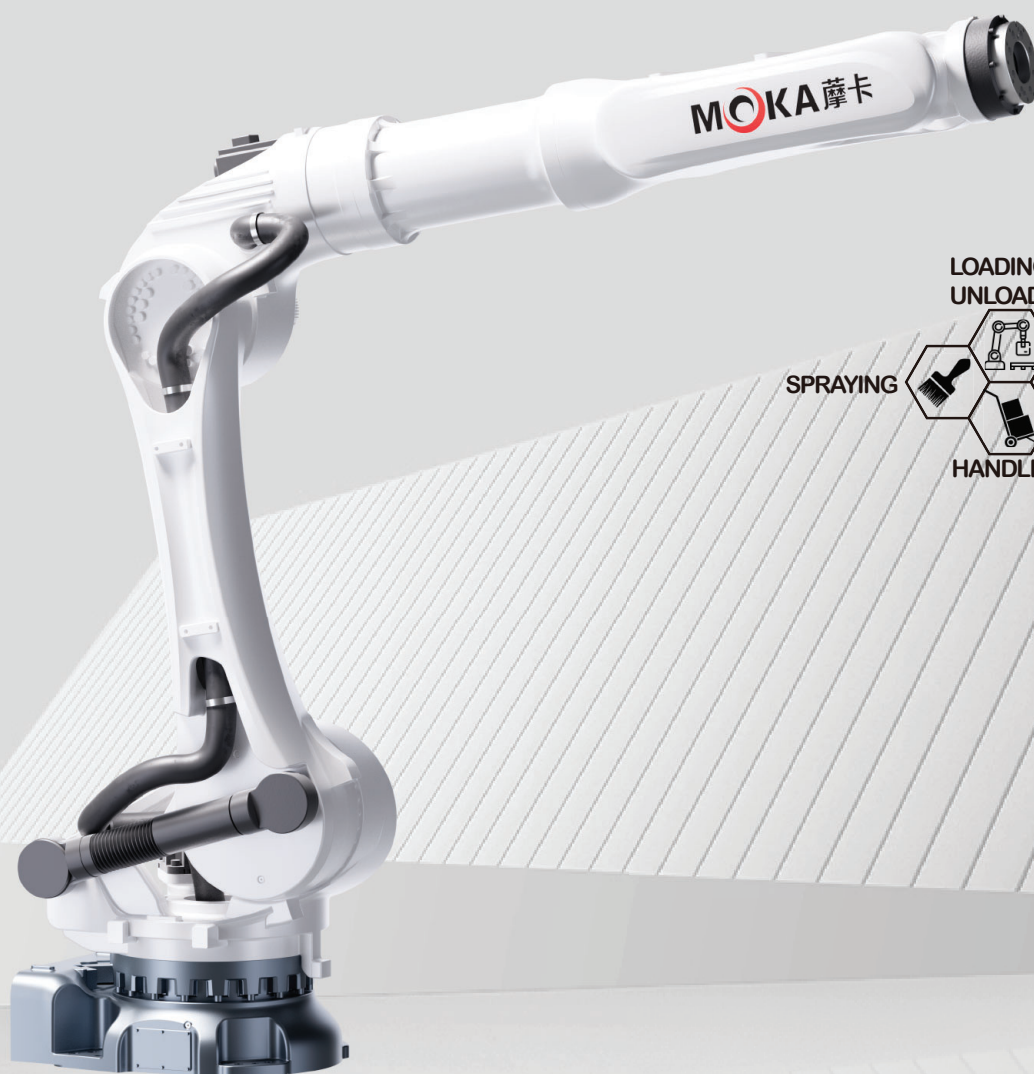
External dimensions and moving range

P moving range



End flange installation dimensions

Base installation dimensions



Number of axis	6-axis		Maximum speed	Moving range
Motion radius	3200mm	J1 axis S	120°/s	$\pm 180^\circ$
Power capacity	25.0KVA	J2 axis L	110°/s	$+60^\circ \sim -180^\circ$
Max Payload	180KG	J3 axis U	115°/s	$+95^\circ \sim -80^\circ$
Protection class	IP54/IP67	J4 axis R	190°/s	$\pm 210^\circ$
Repeatability	$\pm 0.06\text{mm}$	J5 axis B	185°/s	$\pm 125^\circ$
Robot mass	1300KG	J6 axis T	280°/s	$\pm 360^\circ$
Built-in air tube	$\Phi 10$	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)		735



Installation Environment

Temperature	0-45°C	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:6m 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

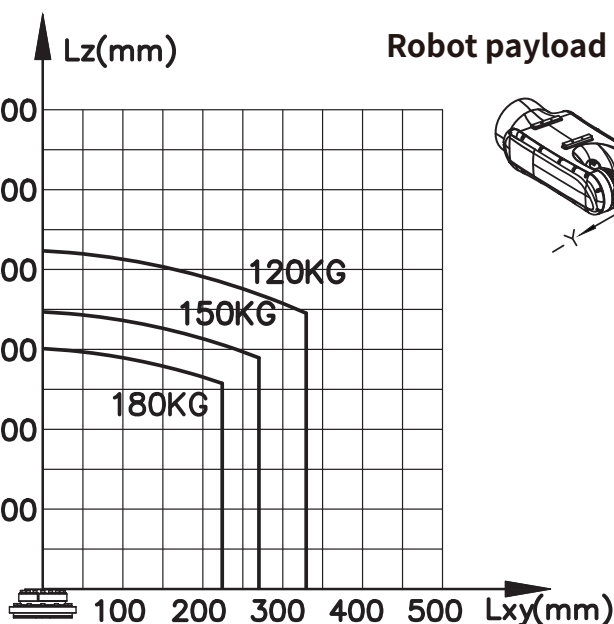


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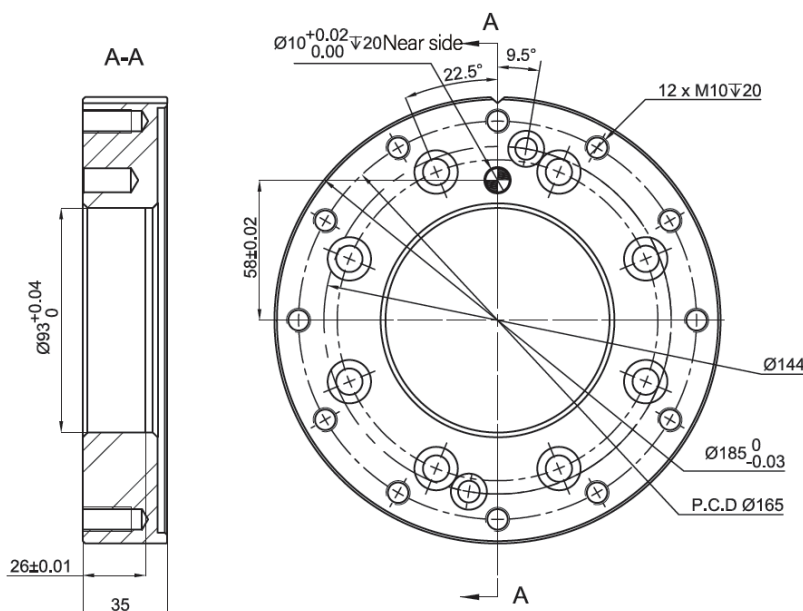
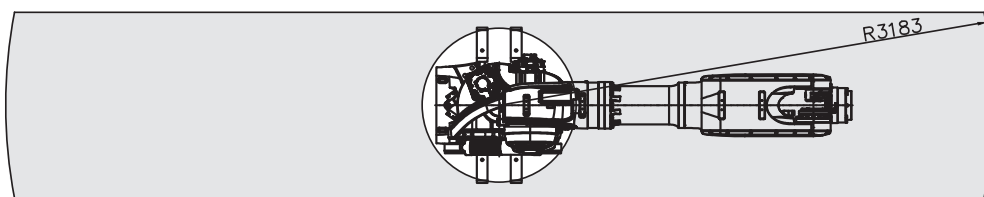
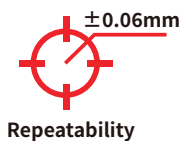
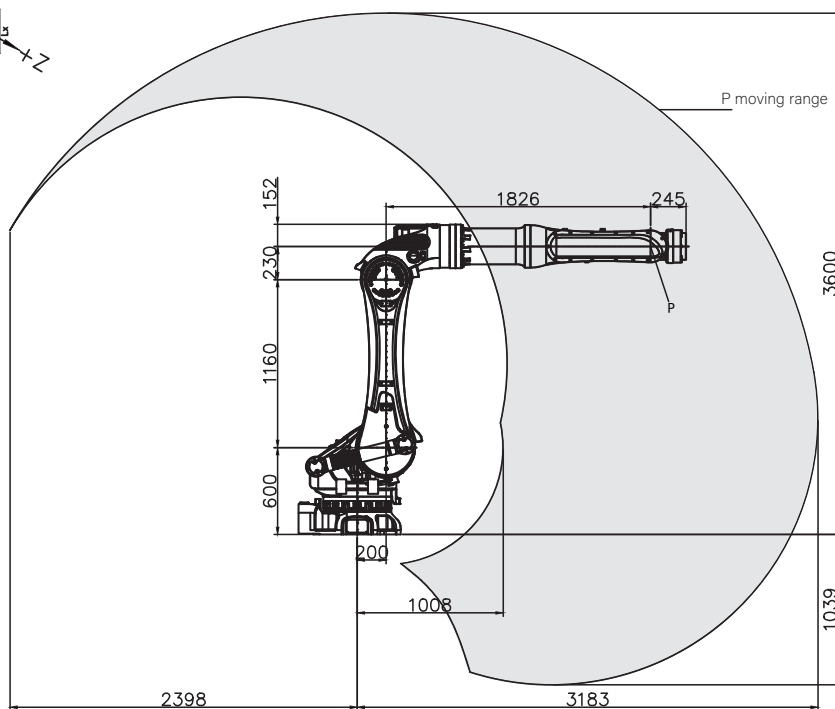
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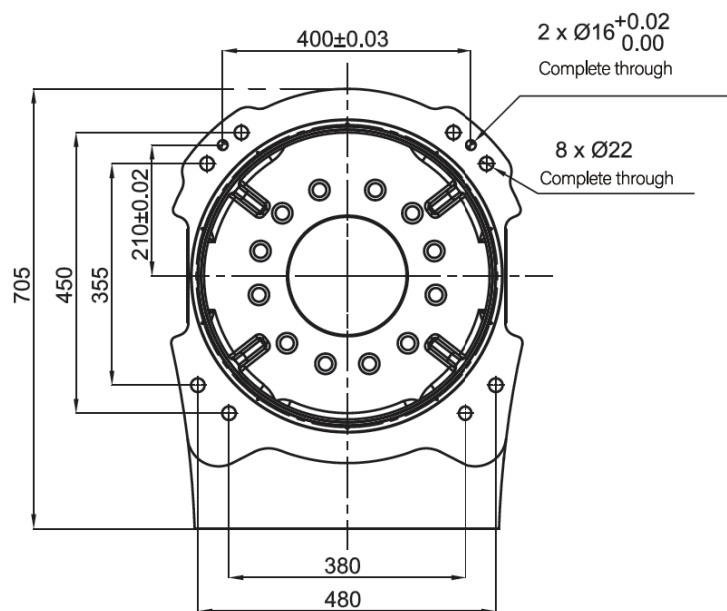


External dimensions and moving range

P moving range



End flange installation dimensions



Base installation dimensions



Number of axis	6-axis	Maximum speed		Moving range
Motion radius	2650mm	J1 axis S	120°/s	$\pm 180^\circ$
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	$\pm 210^\circ$
Repeatability	$\pm 0.06\text{mm}$	J5 axis B	150°/s	$\pm 125^\circ$
Robot mass	1240KG	J6 axis T	220°/s	$\pm 360^\circ$
Built-in air tube	$\Phi 10$	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)		735

Installation Environment

Temperature	0-45°C	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:6m 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

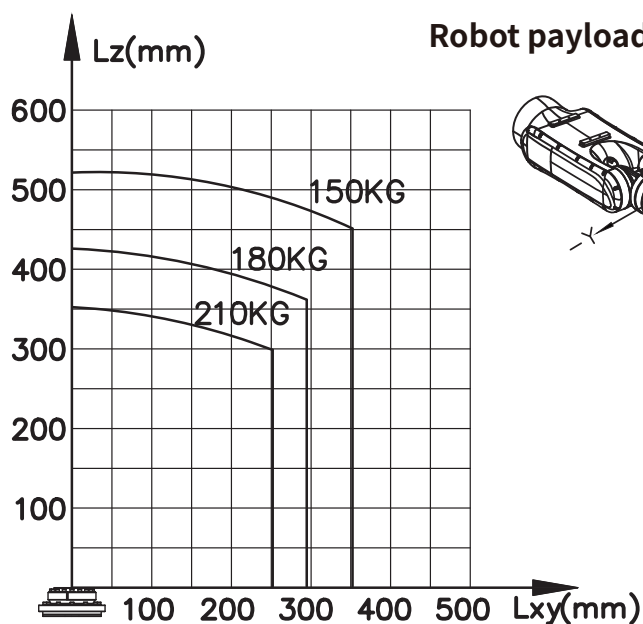


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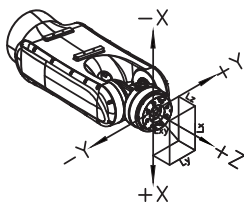
Max payload

Repeatability



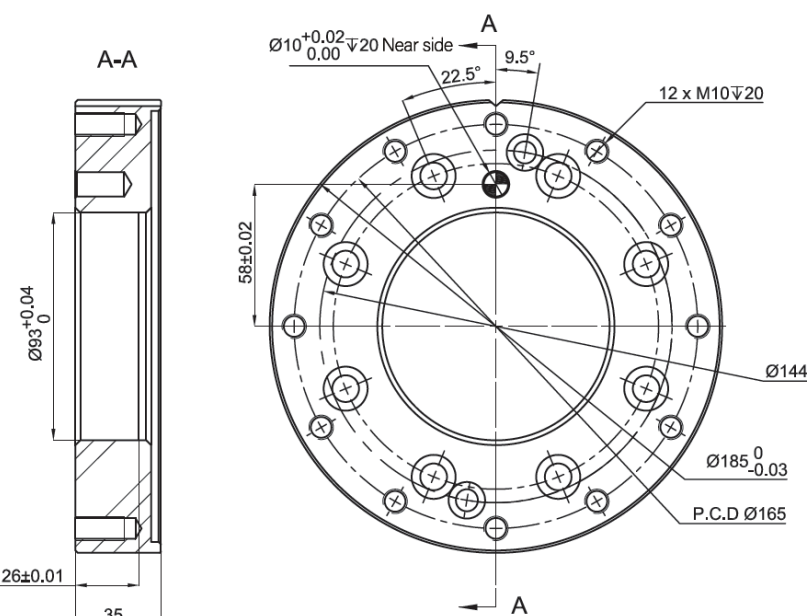
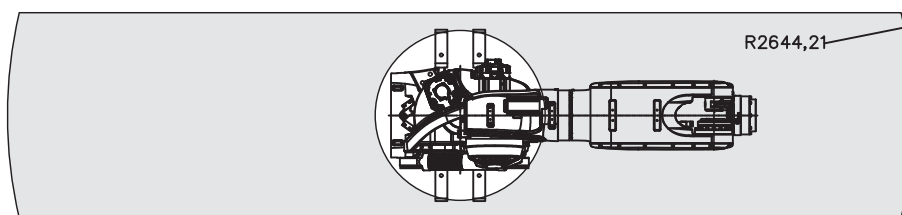
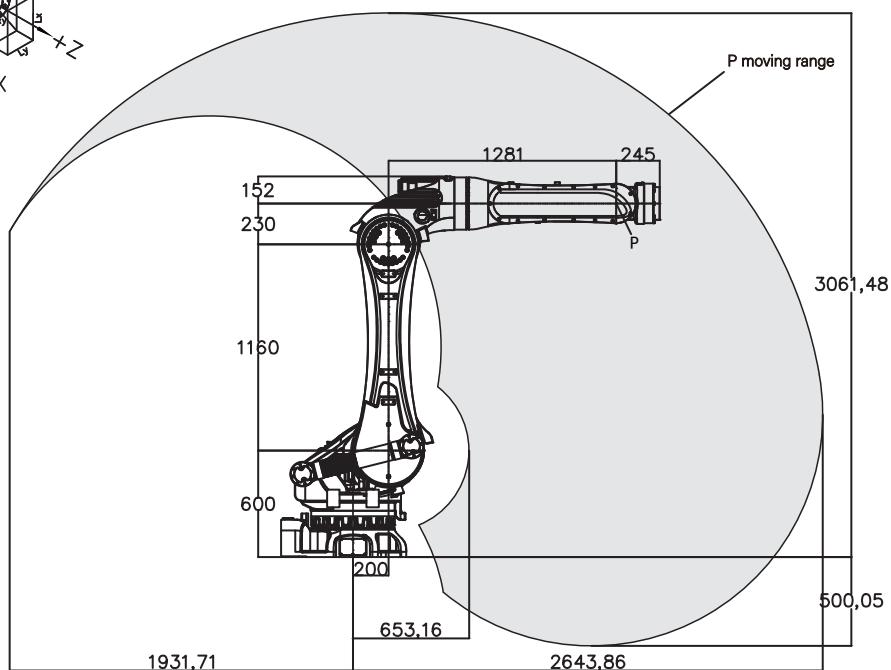
Moving range

Robot payload diagram

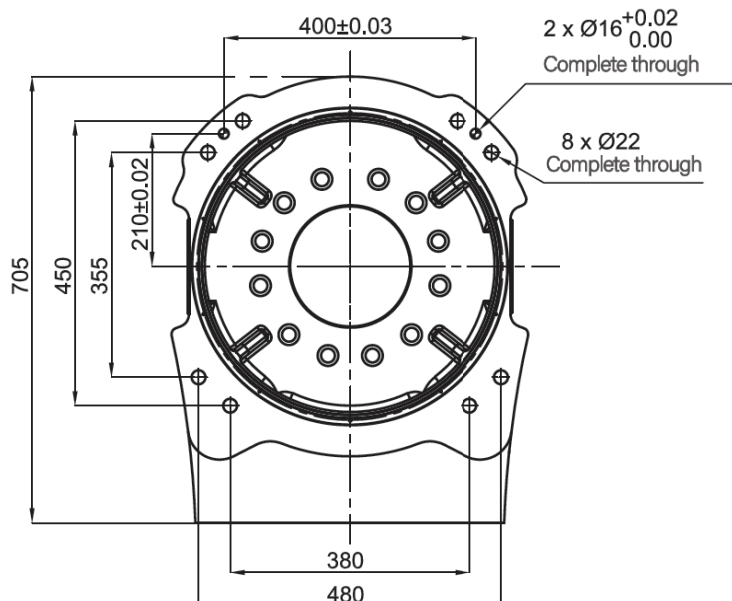


External dimensions and moving range

P moving range



End flange installation dimensions



Base installation dimensions ◀



Number of axis	6-axis		Maximum speed	Moving range
Motion radius	2650mm	J1 axis S	120°/s	$\pm 180^\circ$
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	$\pm 210^\circ$
Repeatability	$\pm 0.06\text{mm}$	J5 axis B	135°/s	$\pm 125^\circ$
Robot mass	1240KG	J6 axis T	220°/s	$\pm 360^\circ$
Built-in air tube	$\Phi 10$	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°C	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: 6m 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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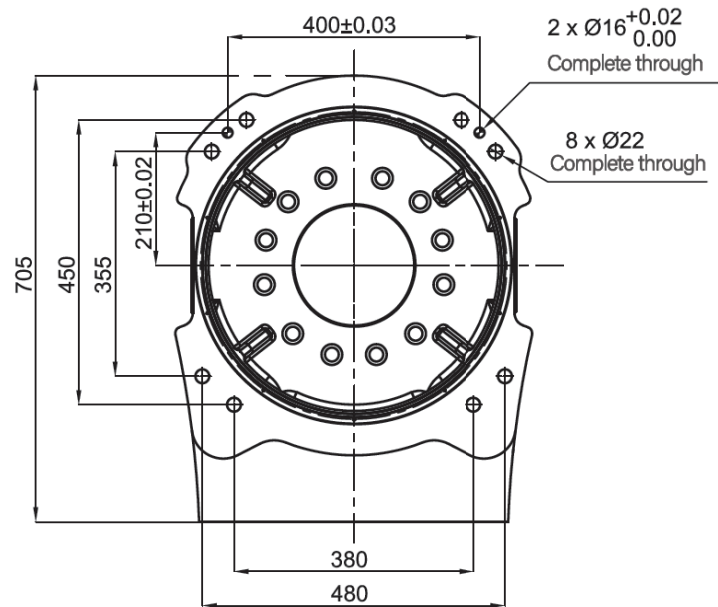
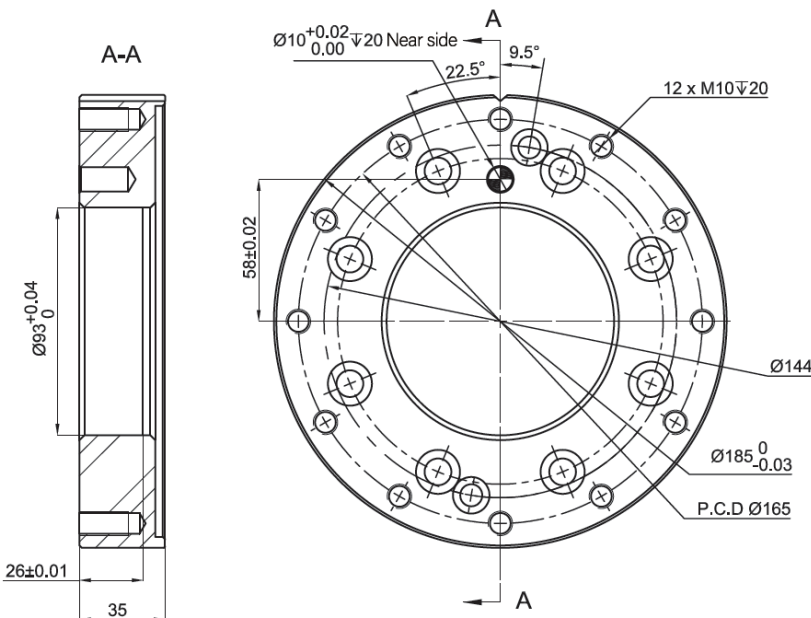
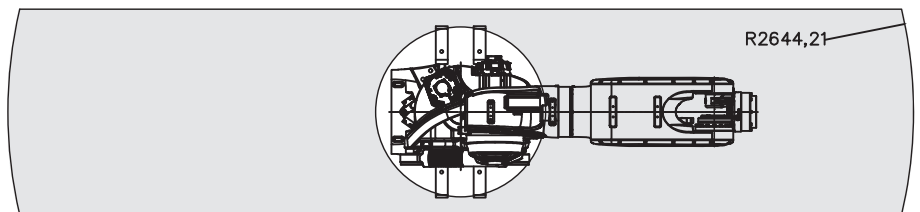
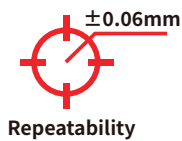
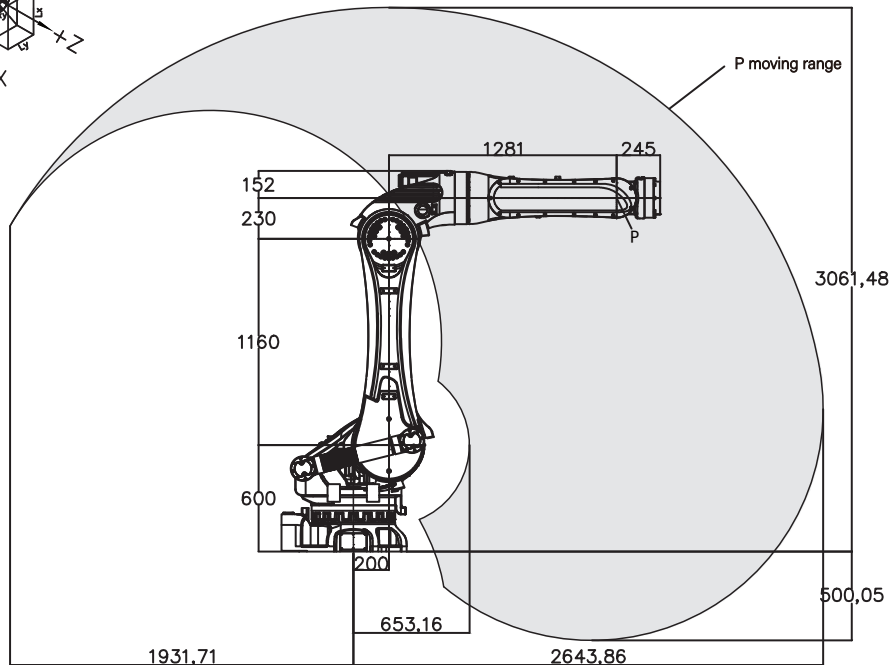
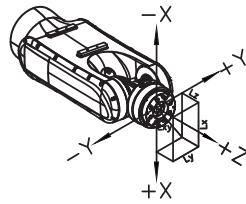
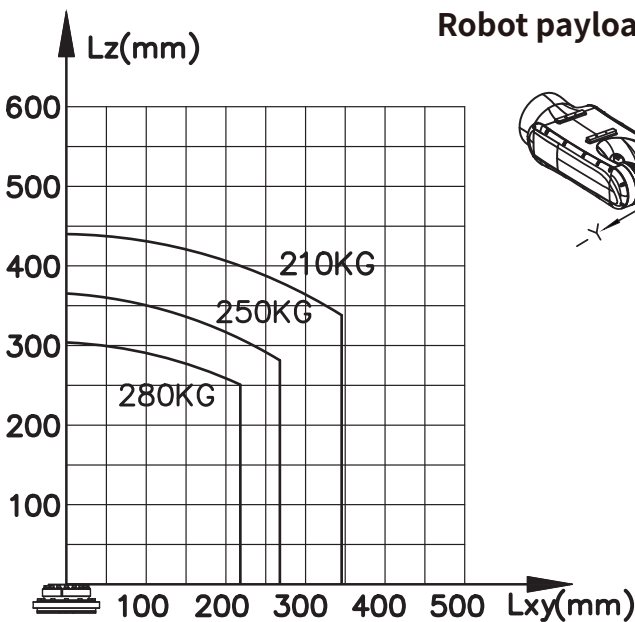
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Robot payload diagram

External dimensions and moving range

P moving range



End flange installation dimensions

Base installation dimensions



LOADING & UNLOADING



PALLETIZING

HANDLING

Number of axis	4-axis		Maximum speed	Moving range
Motion radius	1488mm	J1 axis S	223°/s	$\pm 170^\circ$
Power capacity	3.0KVA	J2 axis L	173°/s	$-32^\circ \sim +80^\circ$
Max Payload	10KG	J3 axis U	300°/s	$+20^\circ \sim -90^\circ$
Protection class	IP56/IP67	J4 axis R	480°/s	$\pm 360^\circ$
Repeatability	$\pm 0.05\text{mm}$		Input/Output signals	Standard 16 in/16 out 24 VDC
Robot mass	165KG		Mounting position	Floor/frame/ceiling
Built-in air tube	$\Phi 10$			

Installation Environment

Temperature	0-45°C	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 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: 6m 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



ATTENTION

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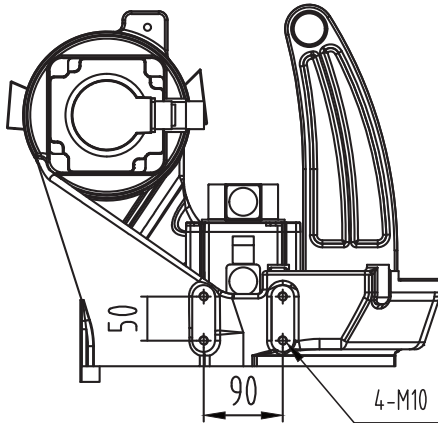
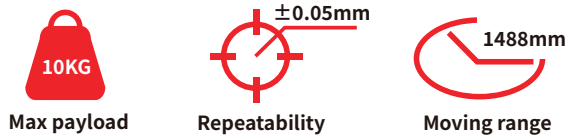
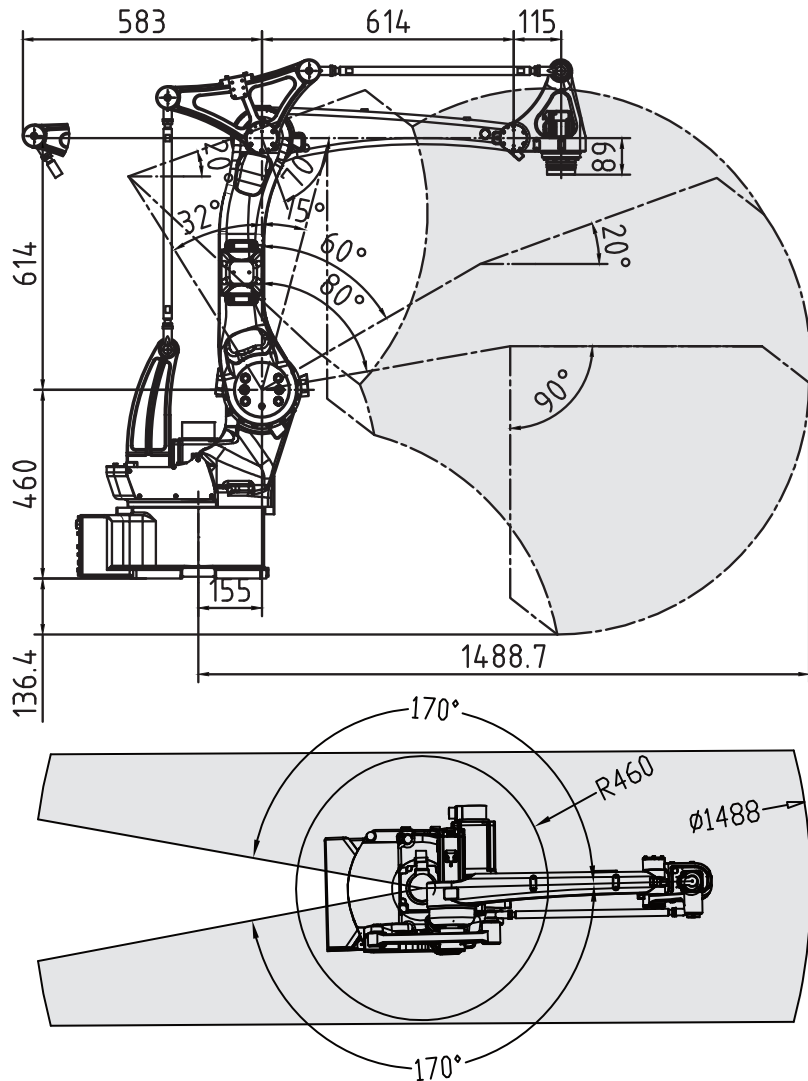
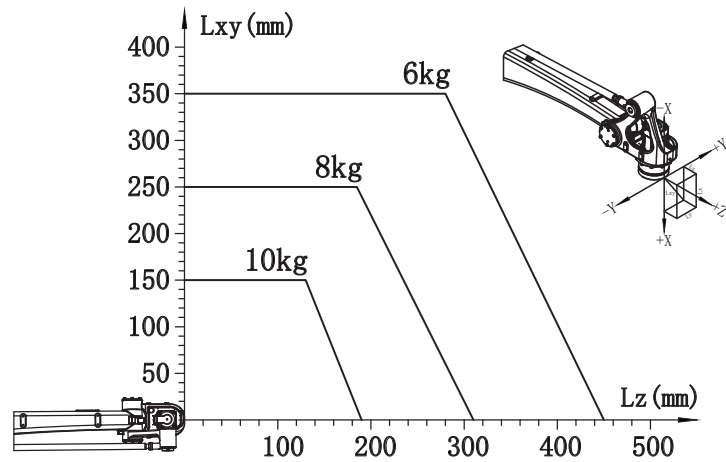
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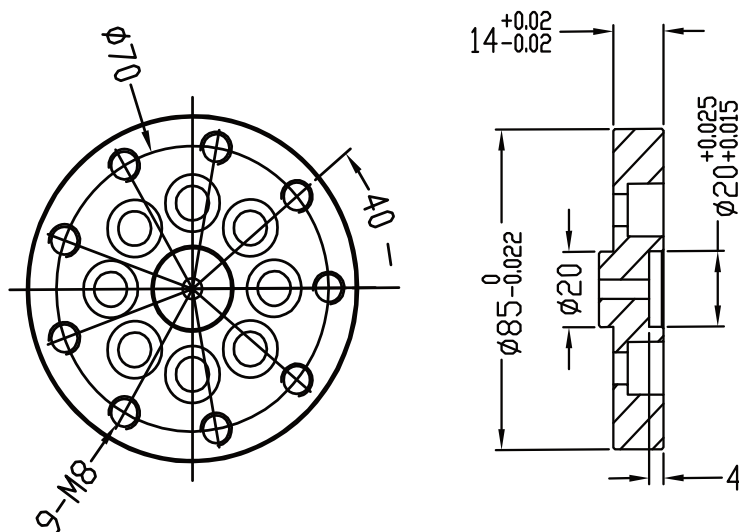
Robot payload diagram

External dimensions and moving range

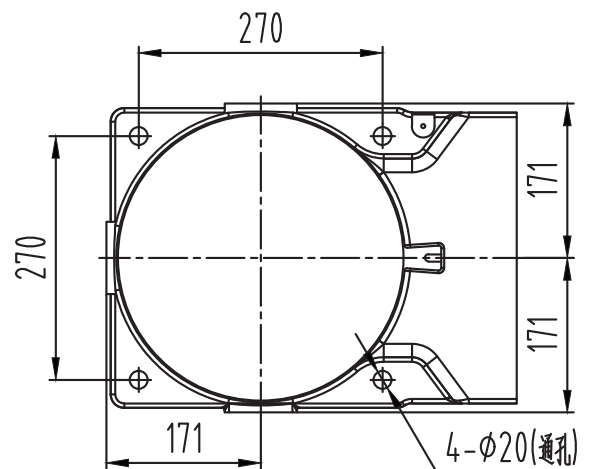
P moving range



Turning base installation dimensions



End flange installation dimensions



Base installation dimensions



Number of axis	4-axis		Maximum speed	Moving range
Motion radius	1750mm	J1 axis S	223°/s	$\pm 170^\circ$
Power capacity	6.0KVA	J2 axis L	223°/s	$-70^\circ \sim +30^\circ$
Max Payload	30KG	J3 axis U	235°/s	$+70^\circ \sim -80^\circ$
Protection class	IP54	J4 axis R	435°/s	$\pm 360^\circ$
Repeatability	$\pm 0.05\text{mm}$		Input/Output signals	Standard 16 in/16 out 24 VDC
Robot mass	295KG		Mounting position	Floor/frame
Built-in air tube	$\Phi 10$			

Installation Environment

Temperature	0-45°C	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	70KG
Cooling method	Natural cooling
Power specifications	1PH AC220V 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: 6m 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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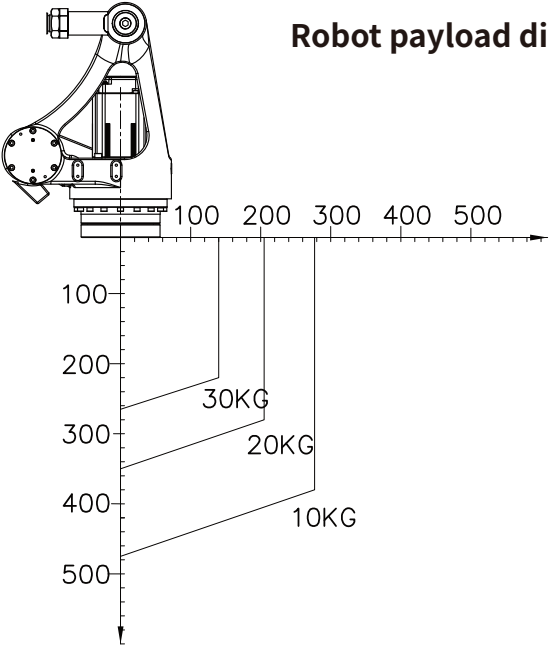
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SPECIFICATIONS

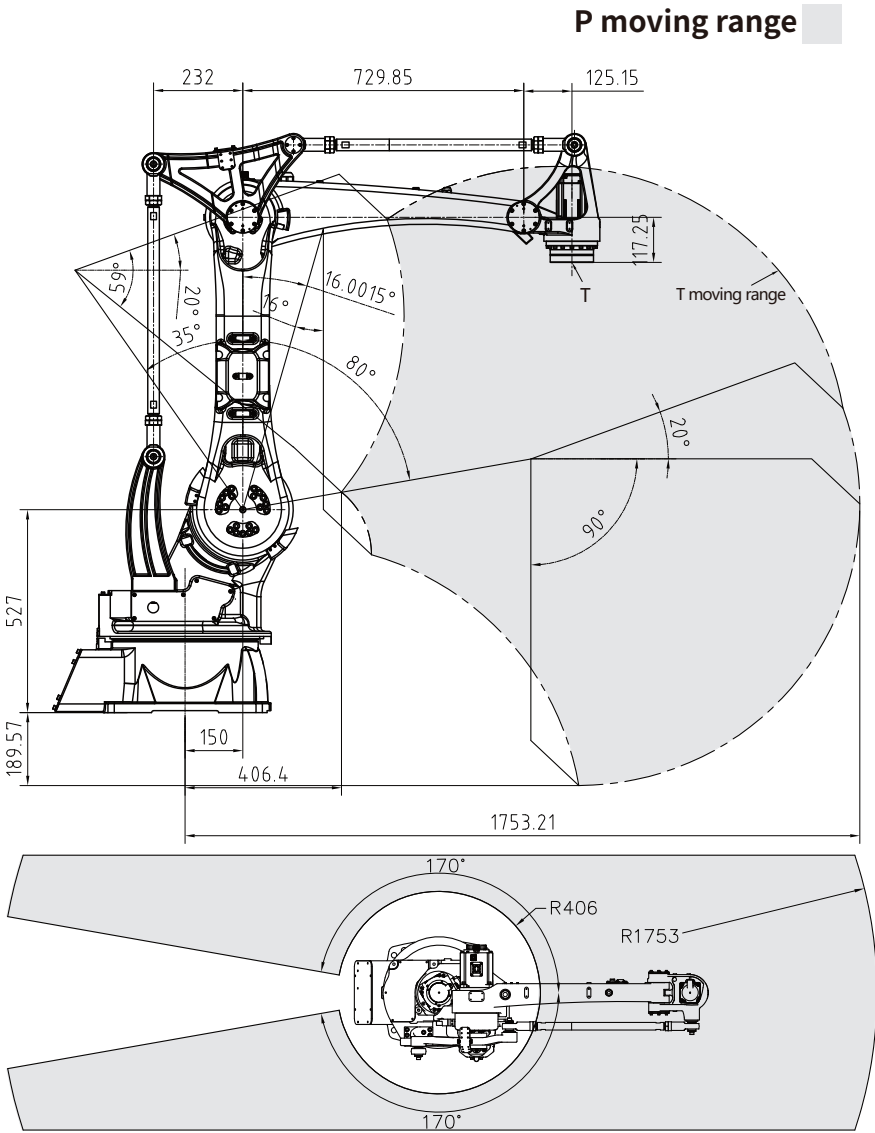
TECHNICAL SPECIFICATION



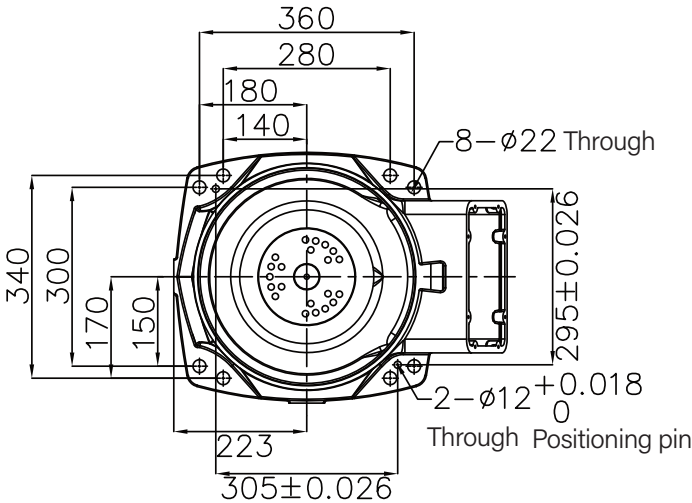
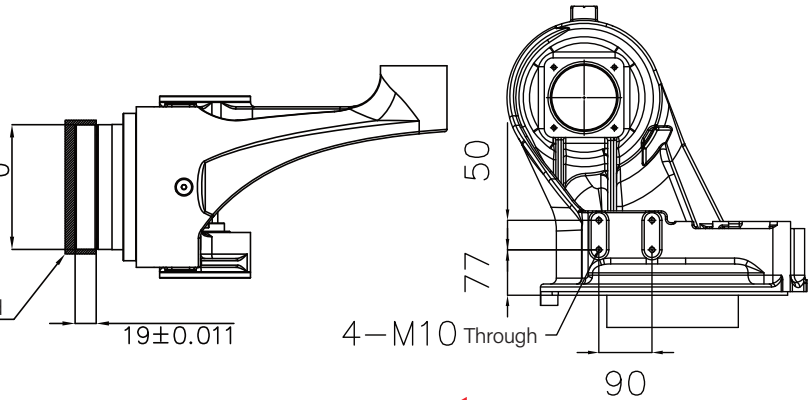
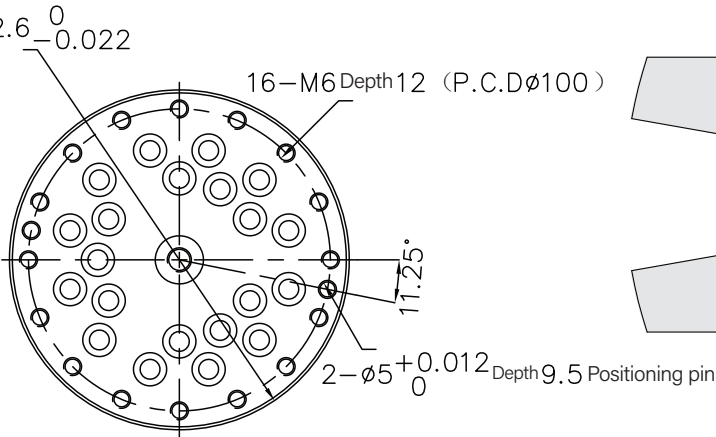
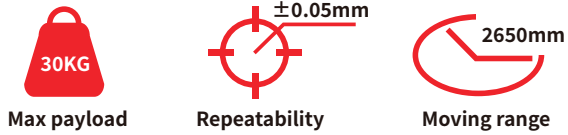
Robot payload diagram



External dimensions and moving range



P moving range



End flange installation dimensions

Turning base installation dimensions

Base installation dimensions

MR10-1440
(MR10W-1440-D)

PAYLOAD : 10KG

REPEATABILITY : $\pm 0.05\text{mm}$



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	$\pm 167^\circ$
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	$\pm 190^\circ$
Repeatability	$\pm 0.05\text{mm}$	J5 axis B	272°/s	+50°~210°
Robot mass	210KG	J6 axis T	1353°/s	$\pm 220^\circ$
Built-in air tube	$\Phi 10$	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°C	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 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: 6m 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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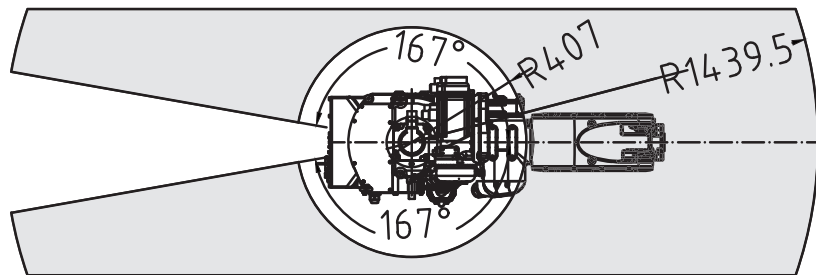
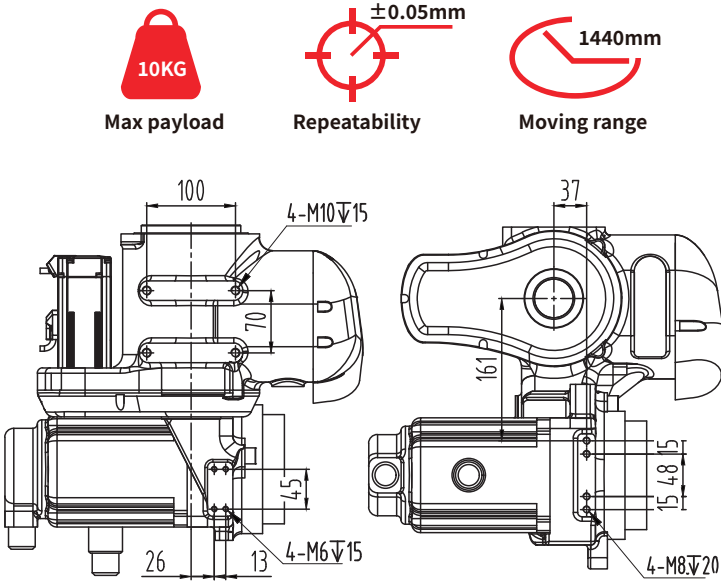
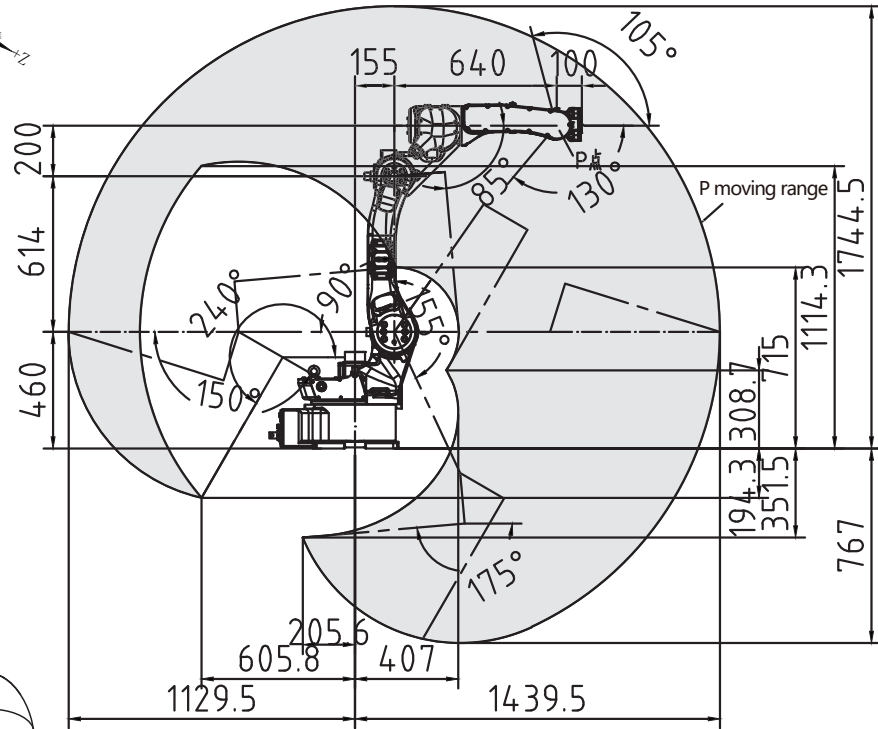
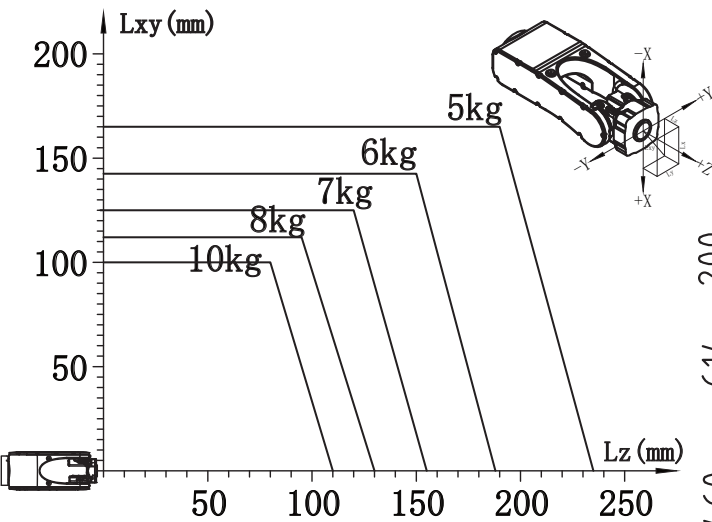
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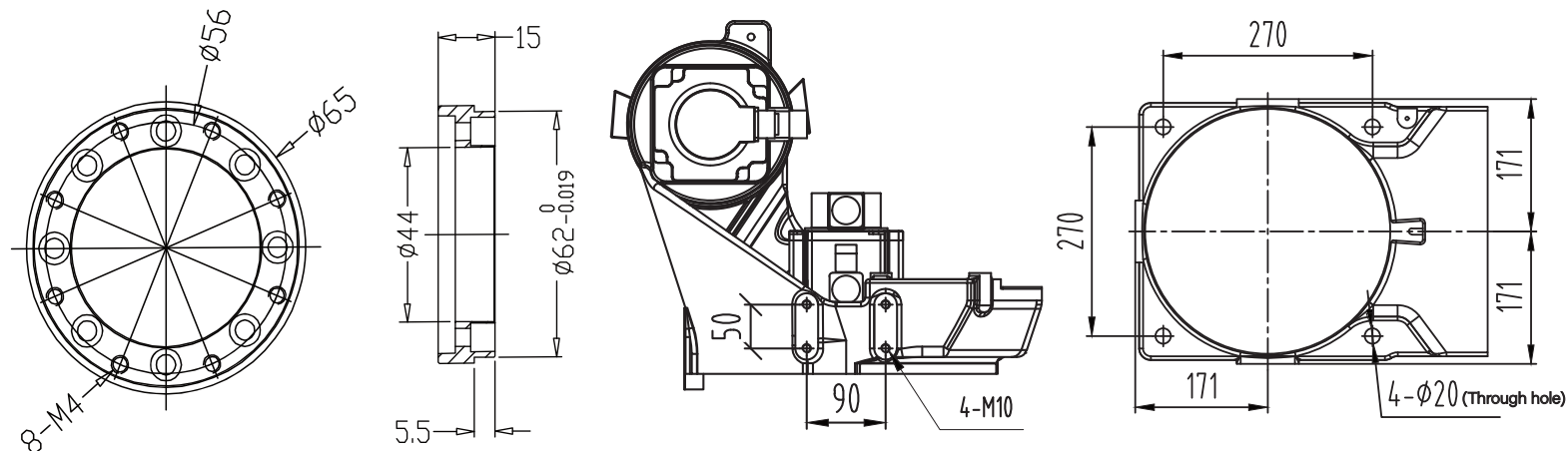
Robot payload diagram

External dimensions and moving range

P moving range



J4 installation dimensions



End flange installation dimensions Turning base 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	203°/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°C	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 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: 6m 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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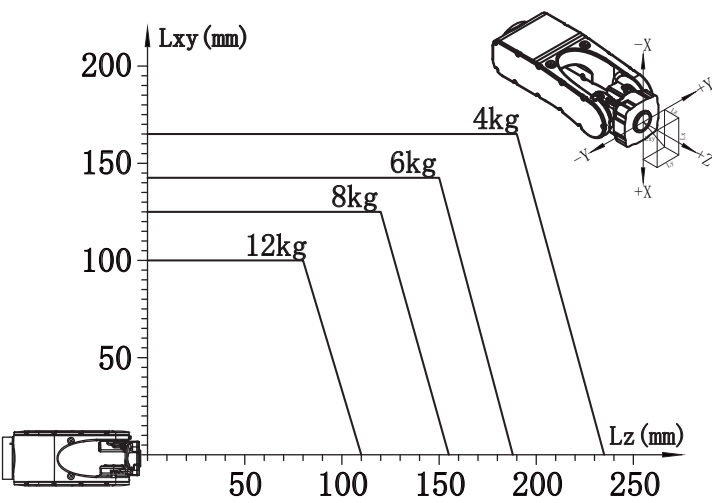
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Robot payload diagram

External dimensions and moving range

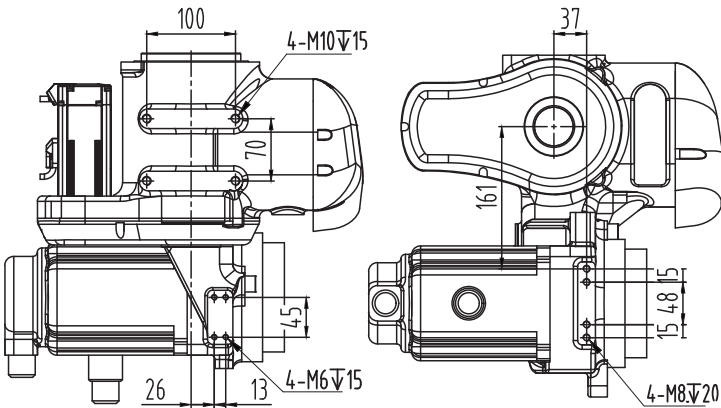
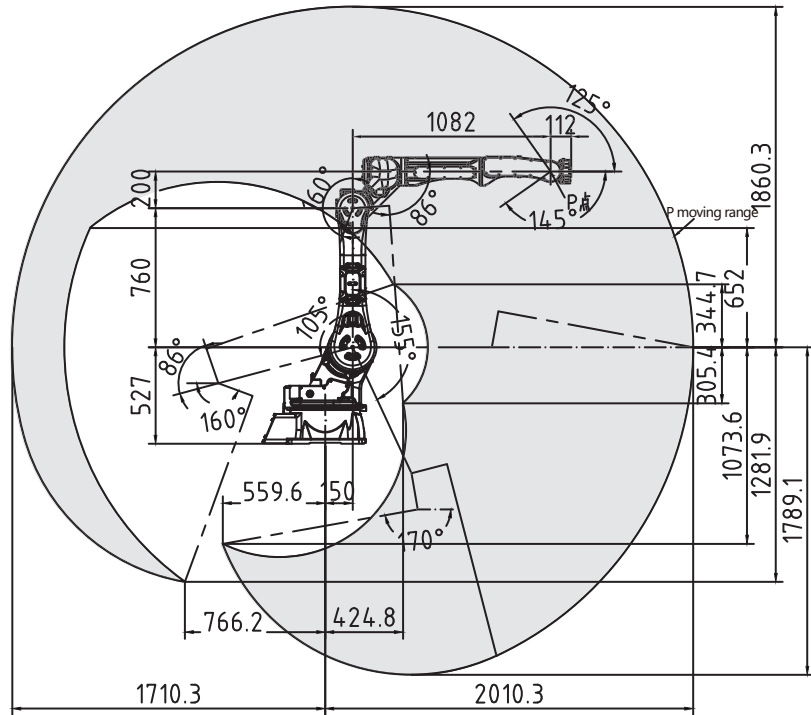
P moving range



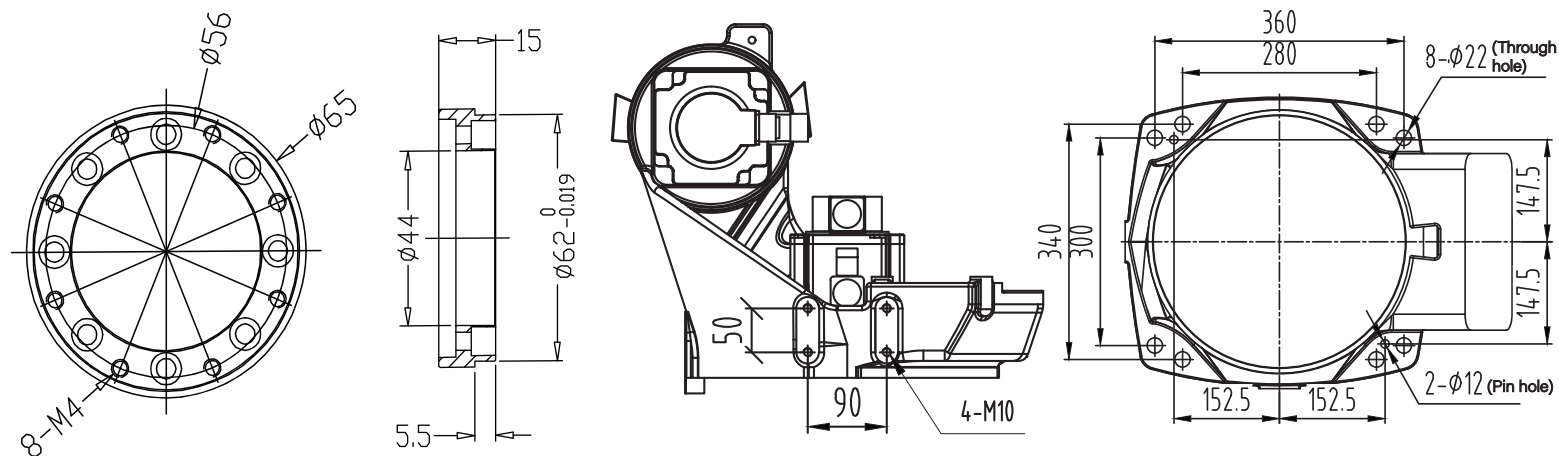
12KG
Max payload

$\pm 0.05\text{mm}$
Repeatability

2010mm
Moving range



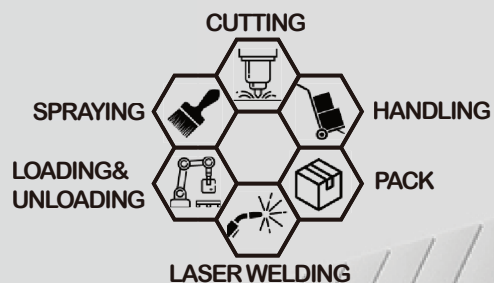
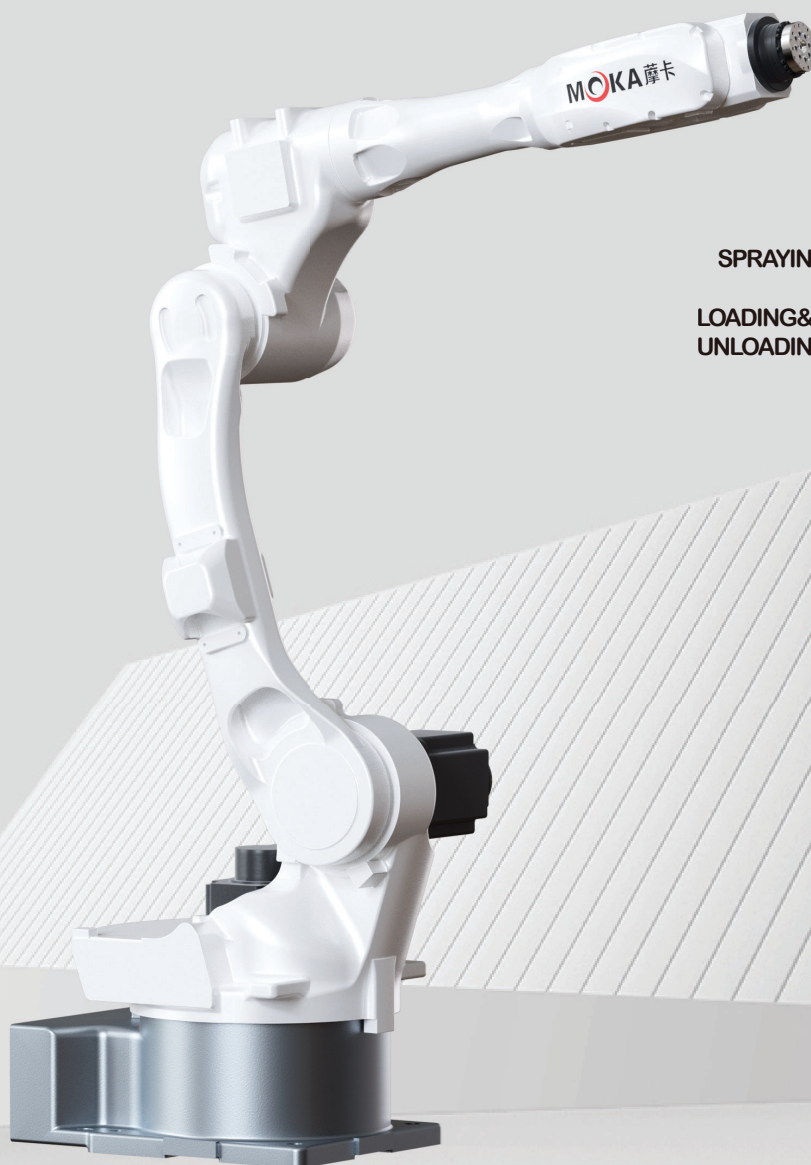
J4 installation dimensions



End flange installation dimensions

Turning base installation dimensions

Base installation dimensions



Number of axis	6-axis		Maximum speed	Moving range
Motion radius	1550mm	J1 axis S	257°/s	$\pm 170^\circ$
Power capacity	4.5KVA	J2 axis L	223°/s	$+80^\circ \sim -145^\circ$
Max Payload	12KG	J3 axis U	257°/s	$+145^\circ \sim -75^\circ$
Protection class	IP56/IP67	J4 axis R	272°/s	$\pm 190^\circ$
Repeatability	$\pm 0.05\text{mm}$	J5 axis B	275°/s	$+20^\circ \sim -200^\circ$
Robot mass	210KG	J6 axis T	540°/s	$\pm 360^\circ$
Built-in air tube	$\Phi 10$	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°C	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 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: 6m 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



ATTENTION

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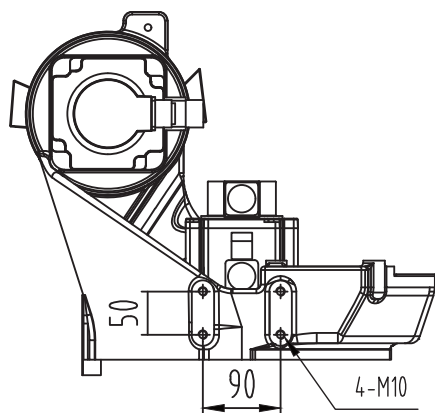
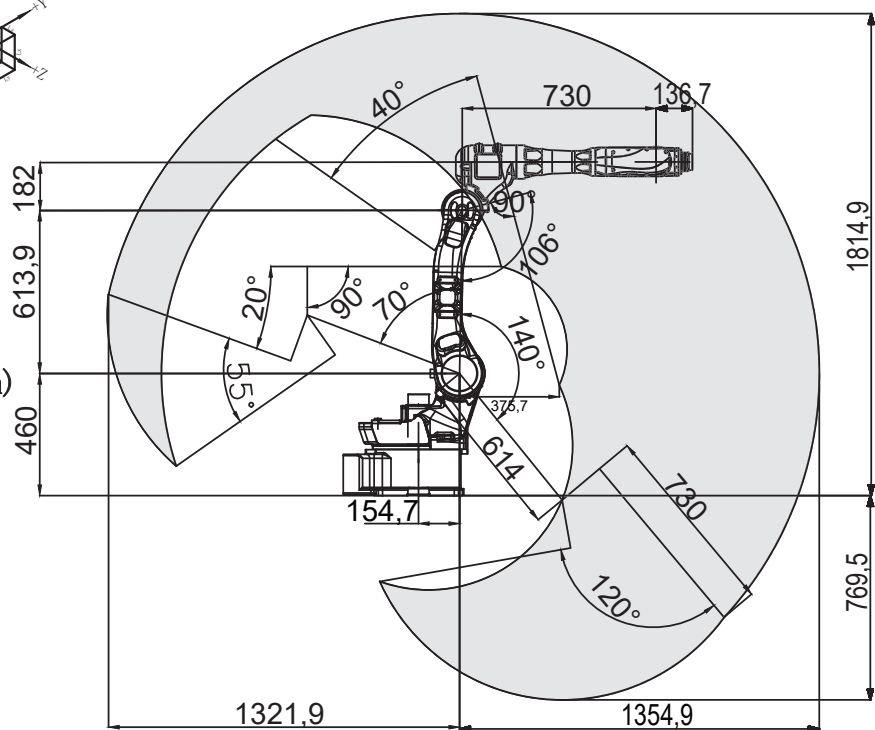
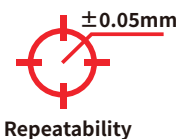
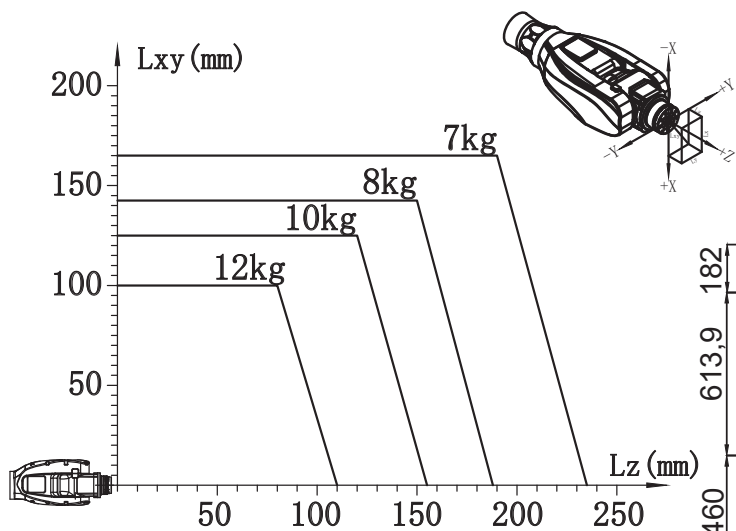
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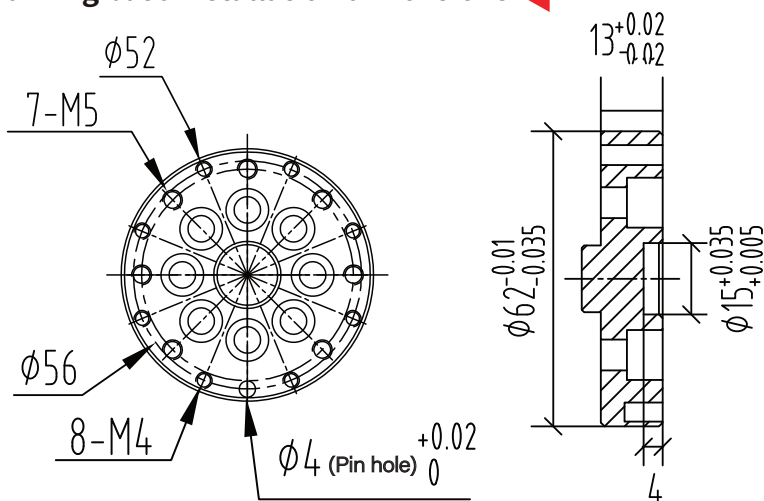
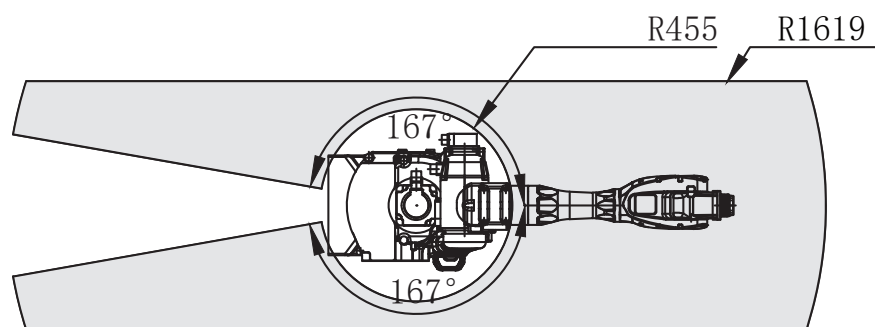
Robot payload diagram

External dimensions and moving range

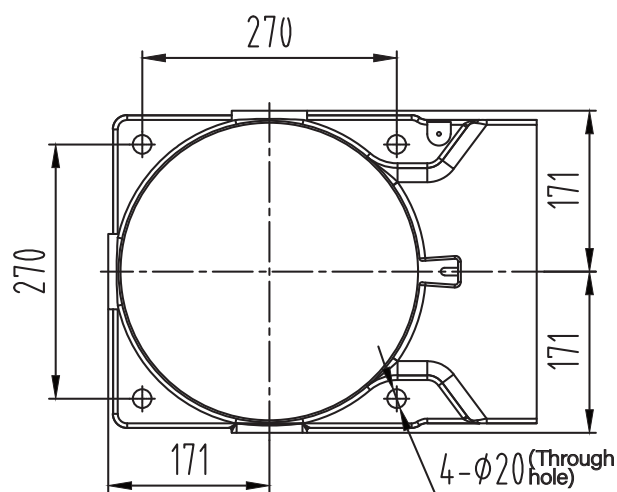
P moving range



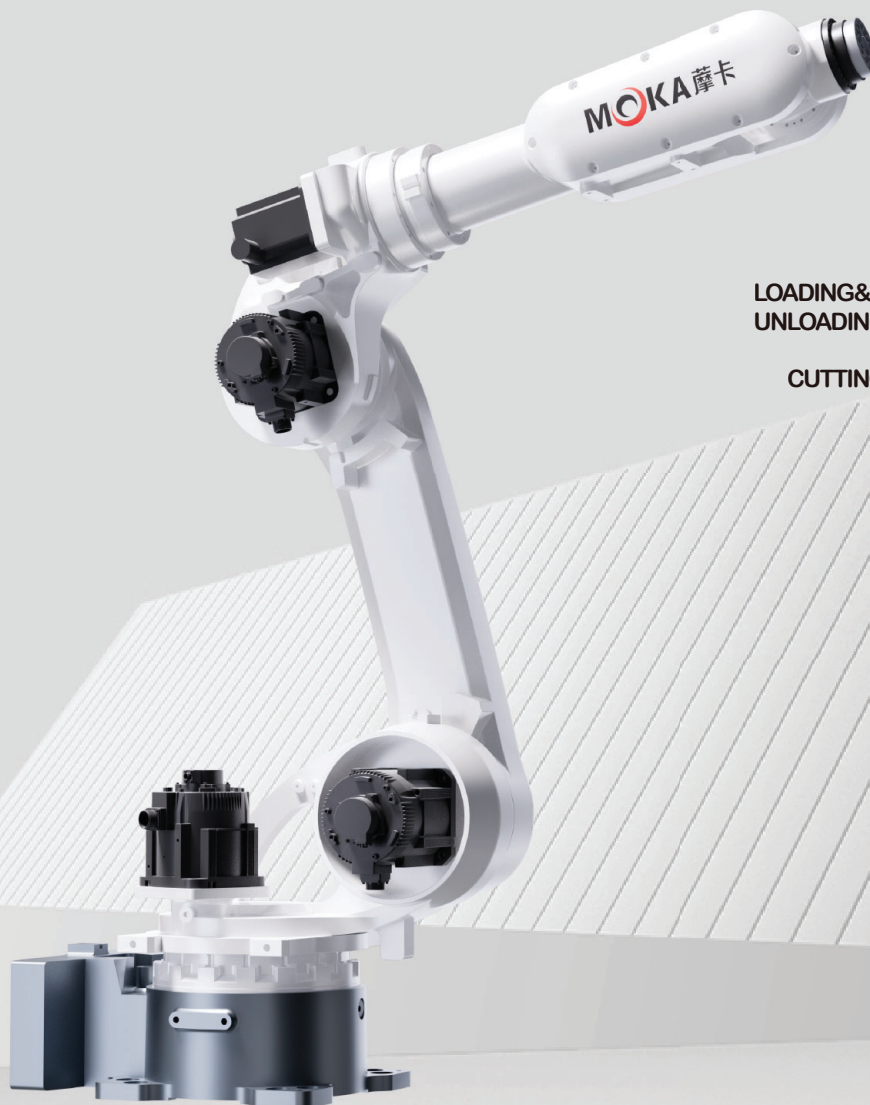
Turning base installation dimensions



End flange installation dimensions



Base installation dimensions



Number of axis	6-axis		Maximum speed	Moving range
Motion radius	2250mm	J1 axis S	216°/s	$\pm 165^\circ$
Power capacity	19.0KVA	J2 axis L	150°/s	$+90^\circ \sim -120^\circ$
Max Payload	80KG	J3 axis U	175°/s	$+140^\circ \sim -70^\circ$
Protection class	IP56/IP67	J4 axis R	378°/s	$\pm 190^\circ$
Repeatability	$\pm 0.08\text{mm}$	J5 axis B	286°/s	$+30^\circ \sim -210^\circ$
Robot mass	678KG	J6 axis T	370/s	$\pm 360^\circ$
Built-in air tube	$\phi 8/\phi 10$	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°C	Humidity	20~80%RH(no condensing)	No corrosive or combustible gas, no water, no splashing	No excessive oil or dust
Vibrations	Below 4.9M/S ² (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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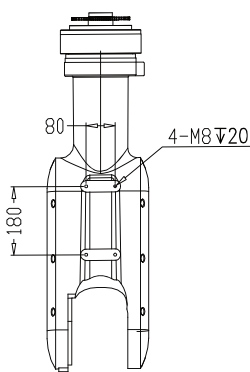
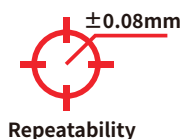
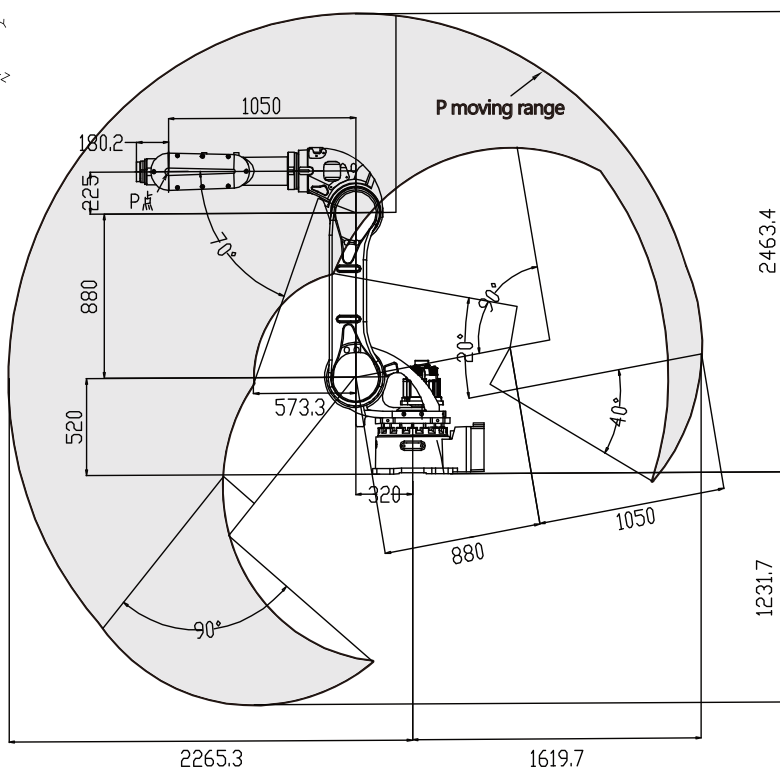
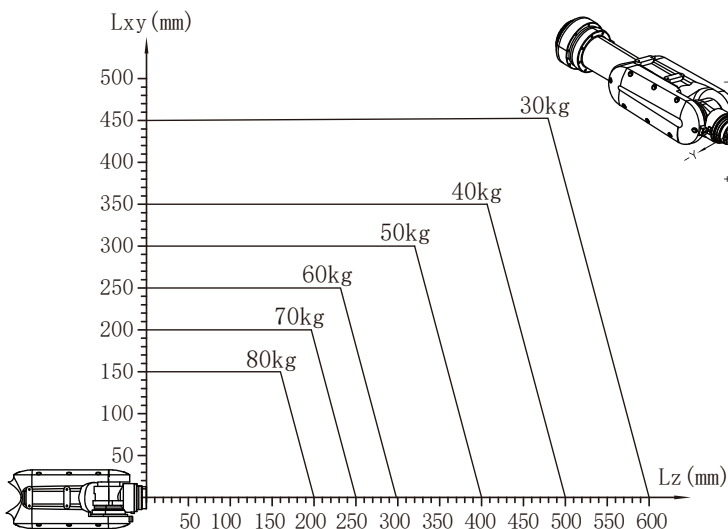
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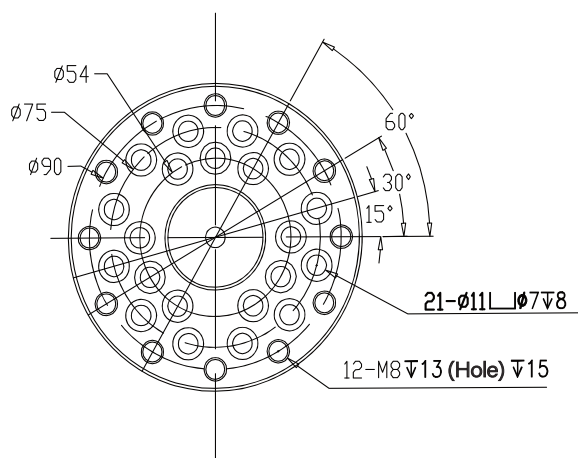
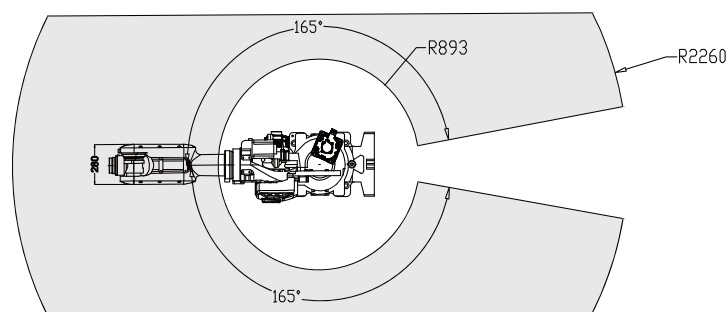
Robot payload diagram

External dimensions and moving range

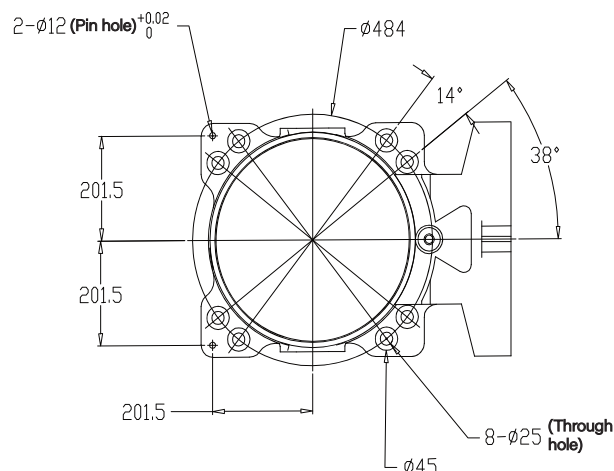
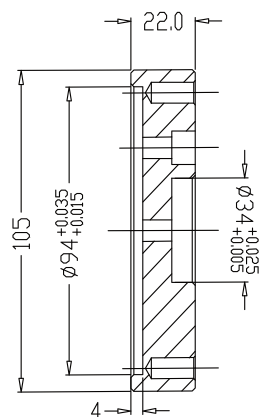
P moving range



Wrist installation dimensions



End flange installation dimensions



Base installation dimensions



Number of axis	6-axis		Maximum speed	Moving range
Motion radius	2680mm	J1 axis S	214°/s	$\pm 160^\circ$
Power capacity	19.0KVA	J2 axis L	149°/s	$+90^\circ \sim -120^\circ$
Max Payload	60KG	J3 axis U	175°/s	$+140^\circ \sim -70^\circ$
Protection class	IP56/IP67	J4 axis R	378°/s	$\pm 190^\circ$
Repeatability	$\pm 0.08\text{mm}$	J5 axis B	285°/s	$+30^\circ \sim -210^\circ$
Robot mass	655KG	J6 axis T	370/s	$\pm 360^\circ$
Built-in air tube	$\phi 8/\phi 10$	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

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Manipulator

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




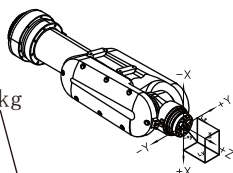
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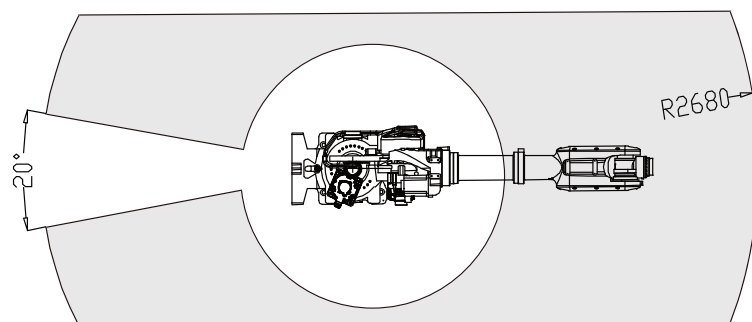
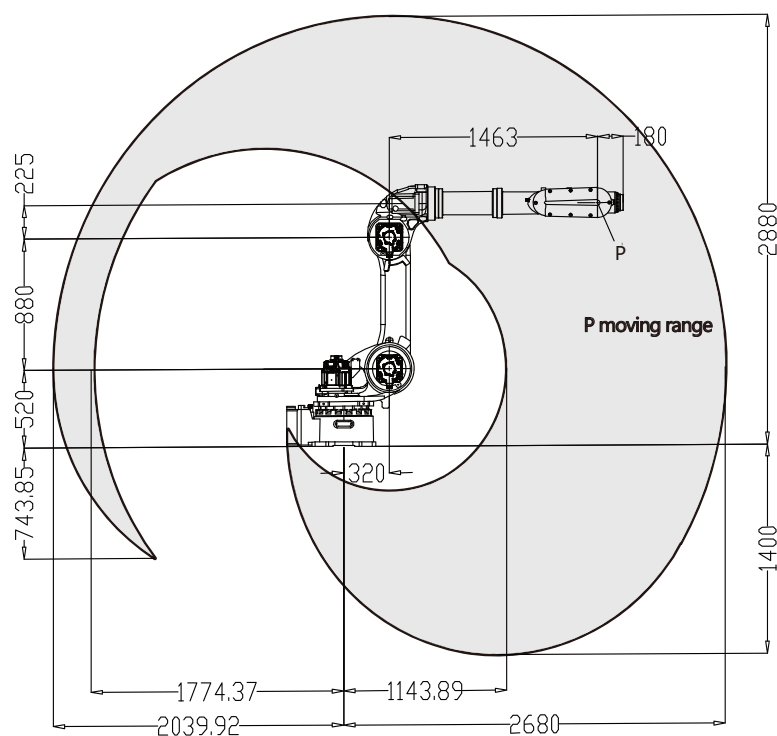
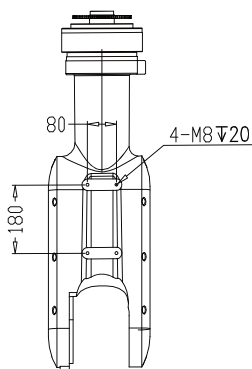
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P moving range



2680mm

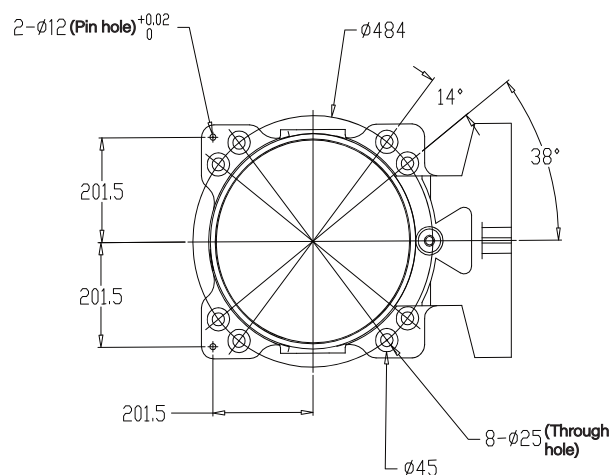
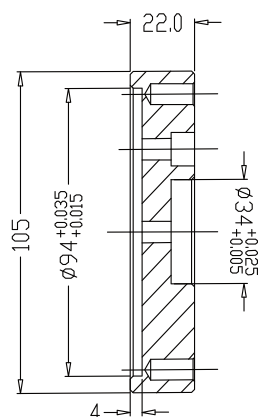
Moving range



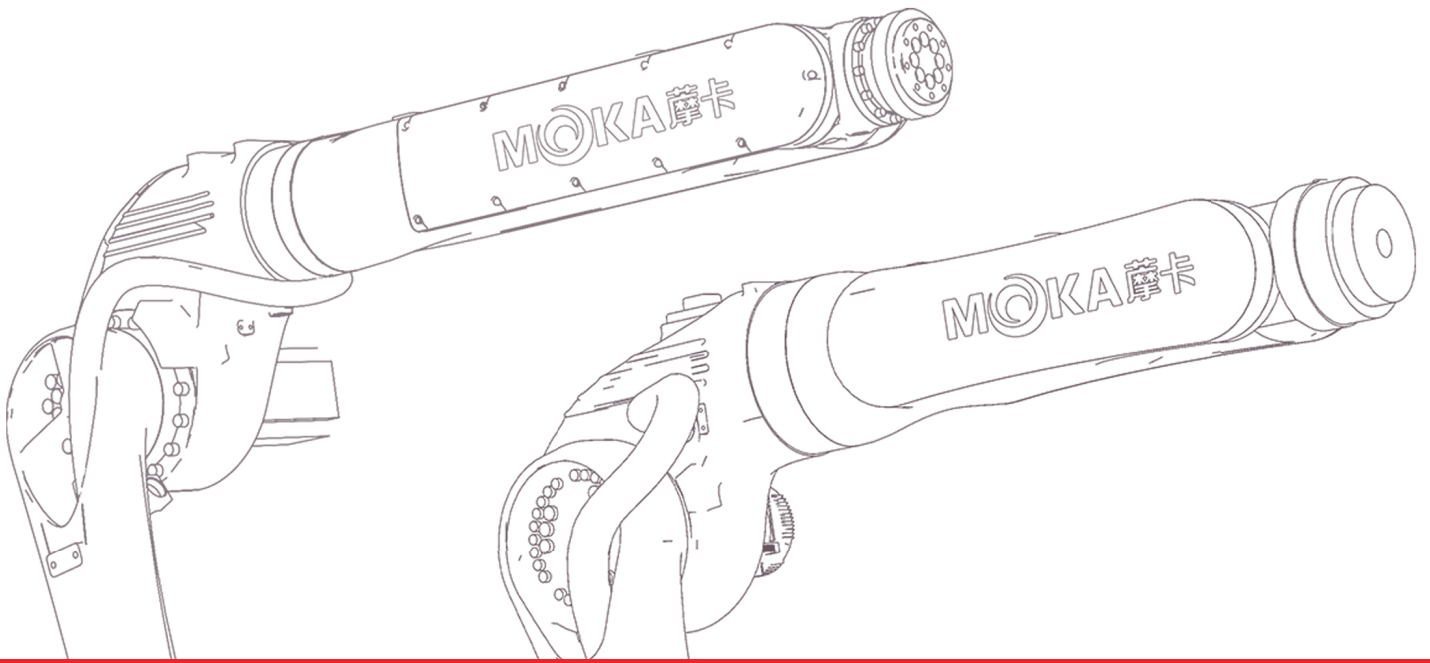
Technical drawing of a circular plate with 21 holes. The plate has an outer diameter of 75mm and an inner diameter of 54mm. The holes are arranged in three concentric circles: 12 holes with a diameter of 8mm in the outer ring, and 9 holes with a diameter of 13mm in the inner ring. The angular spacing between holes is 60 degrees, 30 degrees, and 15 degrees. The drawing includes dimension lines and labels for diameters and hole specifications.

Labels and dimensions:

- Outer diameter: $\phi 75$
- Inner diameter: $\phi 54$
- Hole diameters: $\phi 8$ and $\phi 13$
- Hole specifications: $21-\phi 11 \perp \phi 7 \nabla 8$ and $12-M8 \nabla 13(\text{Hole}) \nabla 15$
- Angular spacing: 60° , 30° , and 15°



Base installation dimensions



MOKA 摩卡

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WUHU MOKA ROBOT TECHNOLOGY CO., LTD

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