

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





MB10W-1500



MB10W-2050



MR10-1440
(MR10W-1440-D)
(Discontinued)



MR12-2010
(Discontinued)



MB15-1550



MB20-2060



MB25-1840



MB30-2100



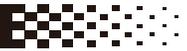
MB35-1870



MB45-1870



MB45G-1860



MB50-2650



MB70-2150



MB150-3200



MB220-2700



MB280-2650



MB360-2650



MB04SC-300



MB04SC-400



MB10SC-500



MB10SC-600



MB10SC-700



MB10SC-800



MB25SC-800



MB25SC-900



MB25SC-1000



MB10S-740



MB08S-1000



MB10S-920



MB07CP-990
(To be launched)



MB12CP-1250
(To be launched)



MB20CP-1420
(To be launched)



MB40CP-1800
(To be launched)



MB100C-2300



MB180C-3200



MR10C-1488



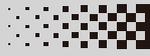
MR30C-1750



MB15C-1500



MB15CD-1500



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

Number of axis	6-axis	Maximum speed	Moving range
Motion radius	1500mm	J1 axis S	$\pm 180^\circ$
Power capacity	4.5KVA	J2 axis L	$+90^\circ \sim -170^\circ$
Max Payload	10KG	J3 axis U	$+160^\circ \sim -92^\circ$
Protection class	IP65/IP67	J4 axis R	$\pm 150^\circ$
Repeatability	$\pm 0.03\text{mm}$	J5 axis B	$+90^\circ \sim -135^\circ$
Robot mass	145KG	J6 axis T	$\pm 360^\circ$
Built-in air tube	$\phi 8$	J4 axis R(N.m)	22
Input/Output signals	Standard 16 in/16 out 24 VDC	J5 axis B(N.m)	22
Mounting position	Floor/ceiling	J6 axis T(N.m)	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	650(width)*495(depth)*580(height)mm (with protrusions)
Approximate mass	80KG
Cooling method	Natural cooling
Power specifications	Three-phase AC220V 50/60HZ (built-in AC380V to AC220V isolation 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); support external axis expansion
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

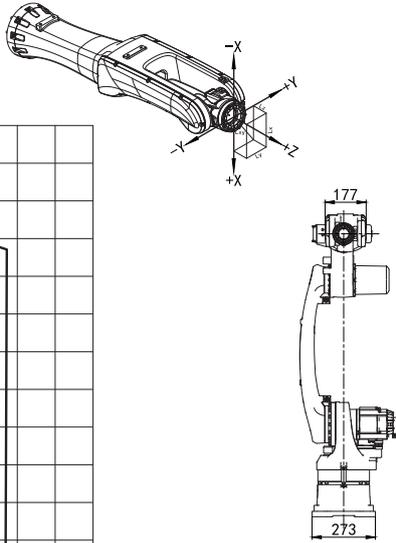
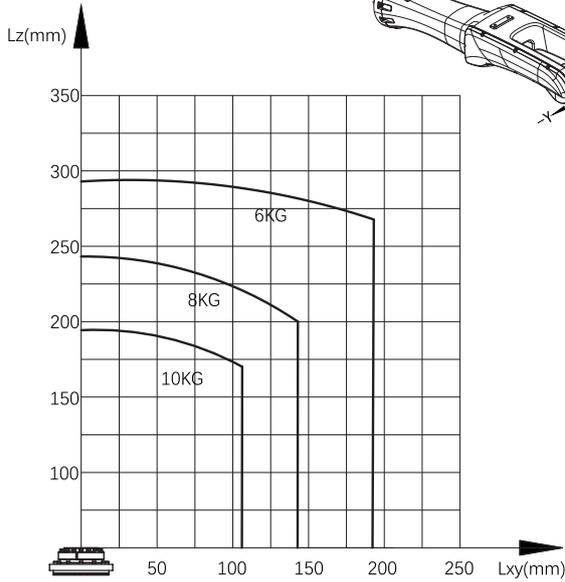
Manipulator

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



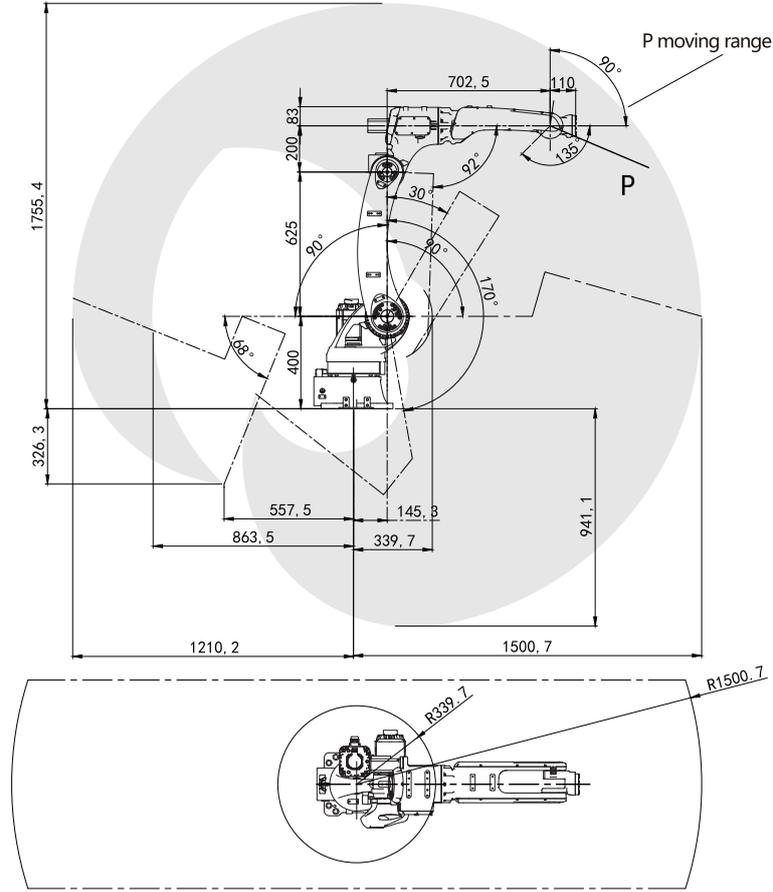
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Robot payload diagram



External dimensions and moving range

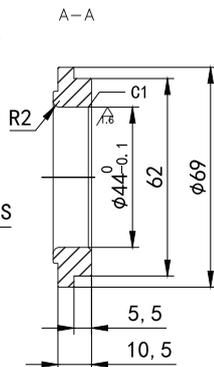
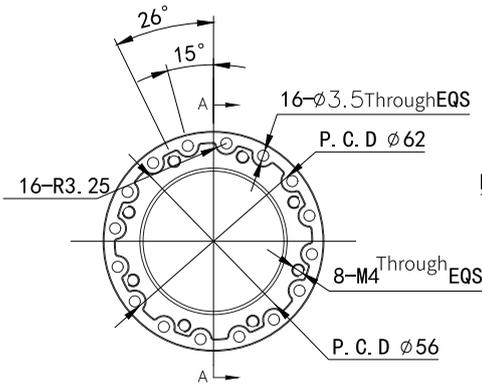
P moving range



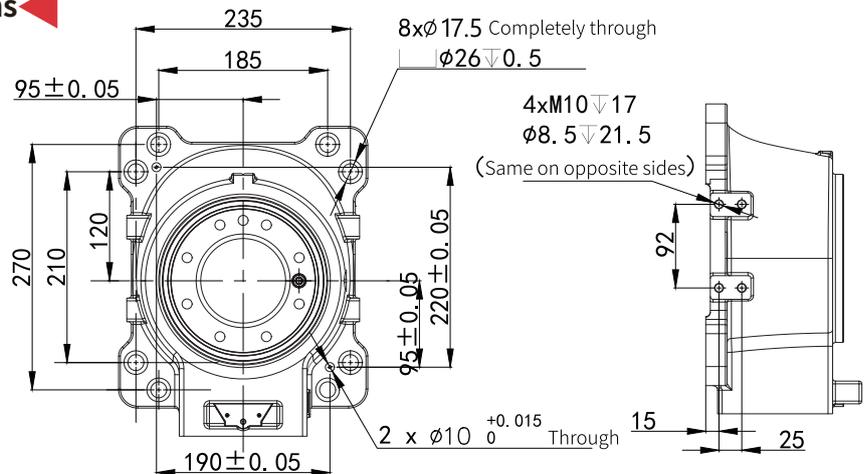
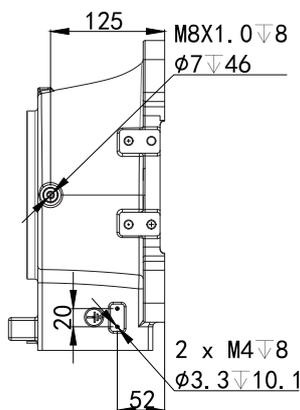
10KG
Max payload

$\pm 0.03\text{mm}$
Repeatability

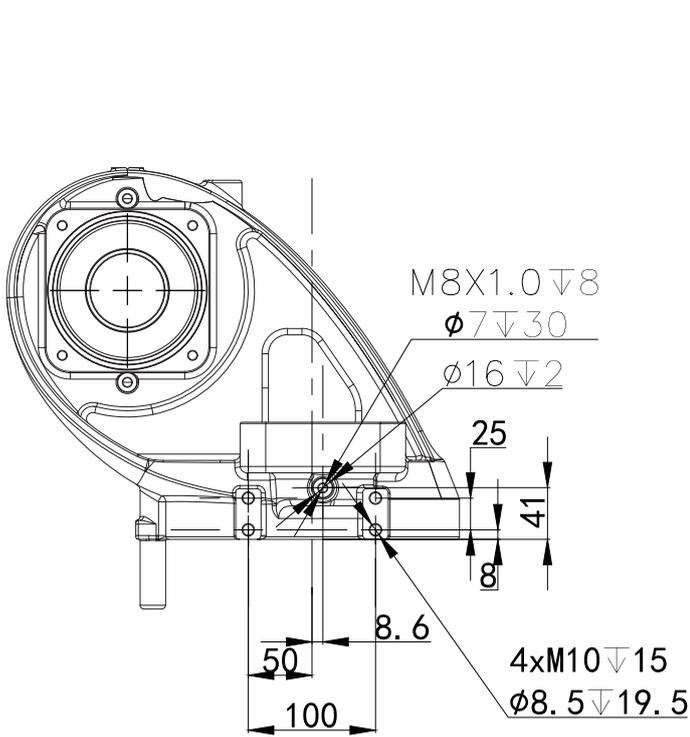
1500mm
Moving range



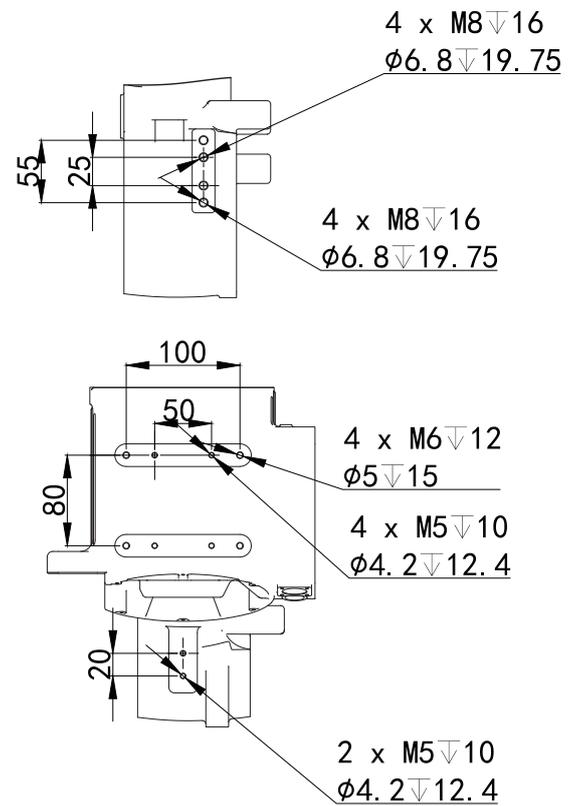
End flange installation dimensions



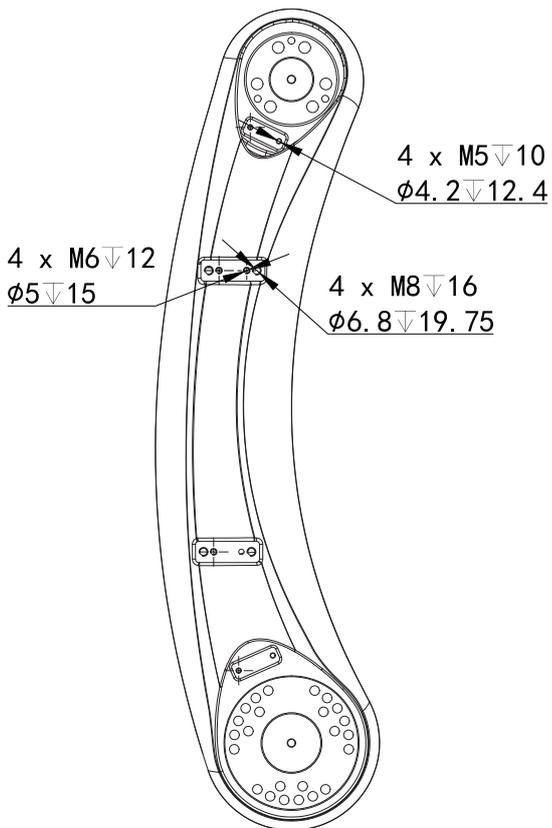
Base installation dimensions



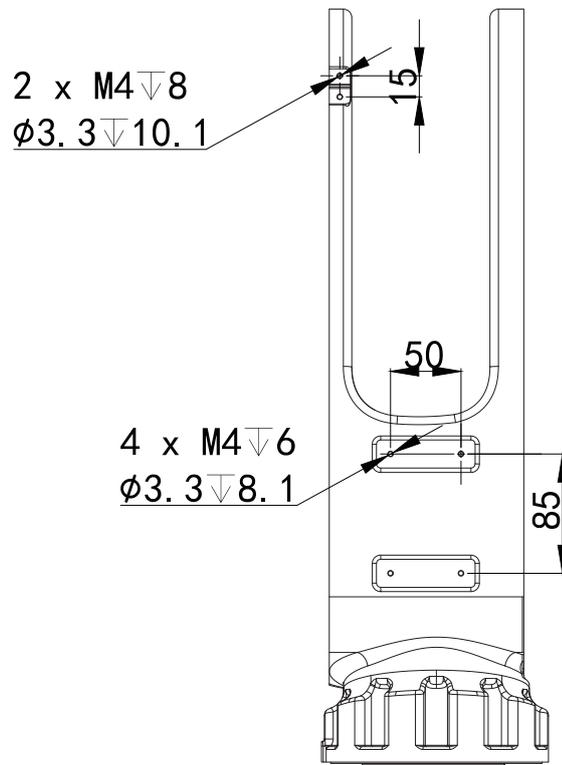
J2 transposition installation dimensions ◀



J4 motor seat installation dimensions ◀



J3 arm installation dimensions ◀



J5 wrist installation dimensions ◀

MB10W-2050

PAYLOAD : 10KG

REPEATABILITY : $\pm 0.03\text{mm}$

MOKA



SPECIAL FOR WELDING

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

Number of axis	6-axis		Maximum speed	Moving range
Motion radius	2050mm	J1 axis S	204°/s	$\pm 180^\circ$
Power capacity	4.5KVA	J2 axis L	245°/s	+90°~-170°
Max Payload	10KG	J3 axis U	275°/s	+160°~-92°
Protection class	IP65/IP67	J4 axis R	330°/s	$\pm 150^\circ$
Repeatability	$\pm 0.03\text{mm}$	J5 axis B	460°/s	+90°~-135°
Robot mass	268KG	J6 axis T	700°/s	$\pm 360^\circ$
Built-in air tube	$\Phi 10$	J4 axis R(N.m)		25
Input/Output signals	Standard 16 in/16 out 24 VDC	J5 axis B(N.m)		25
Mounting position	Floor/ceiling	J6 axis T(N.m)		15

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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	Three-phase AC220V 50/60HZ (built-in AC380V to AC220V isolation 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); support external axis expansion
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

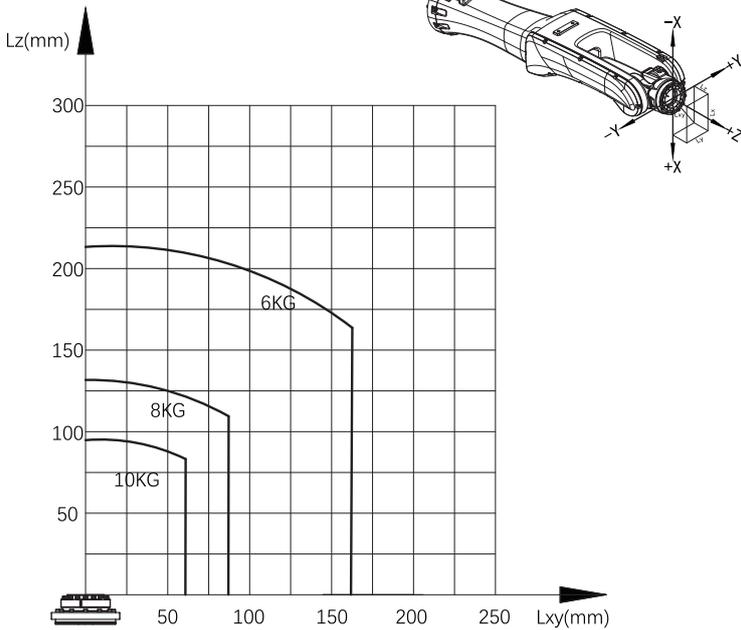
Manipulator

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

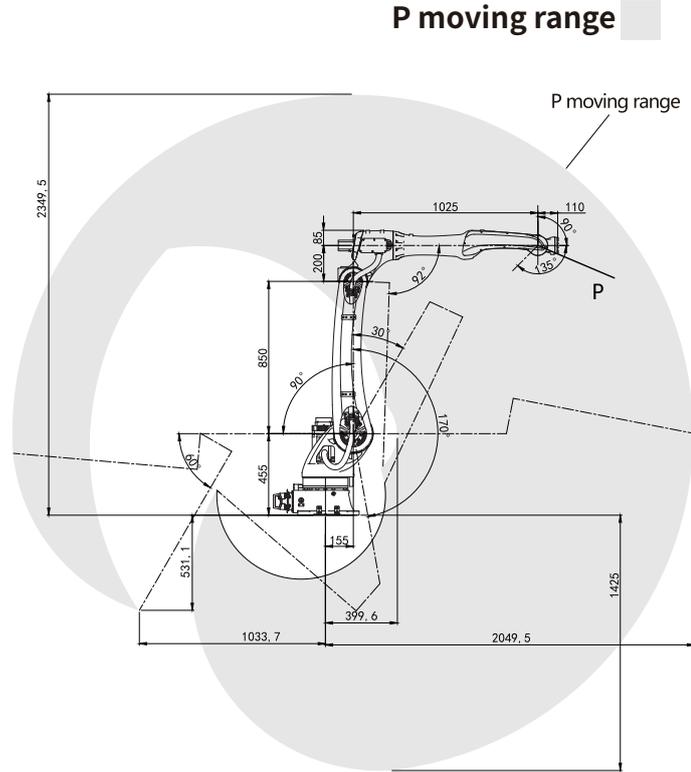


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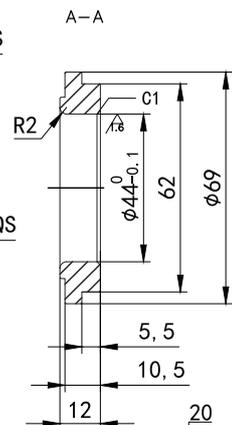
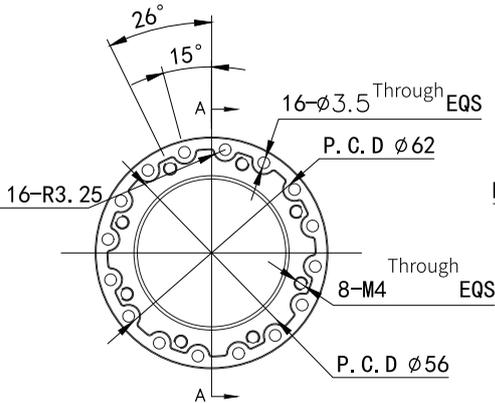
Robot payload diagram



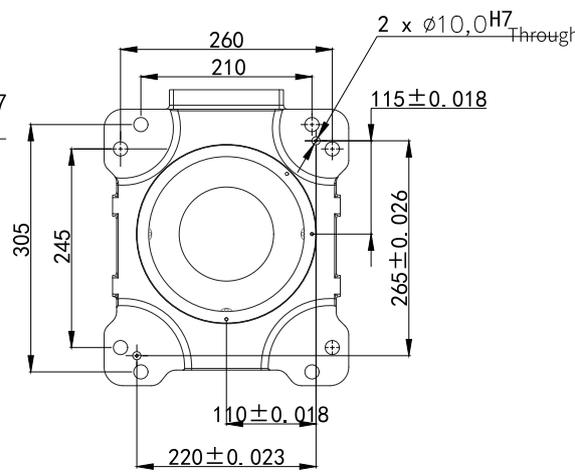
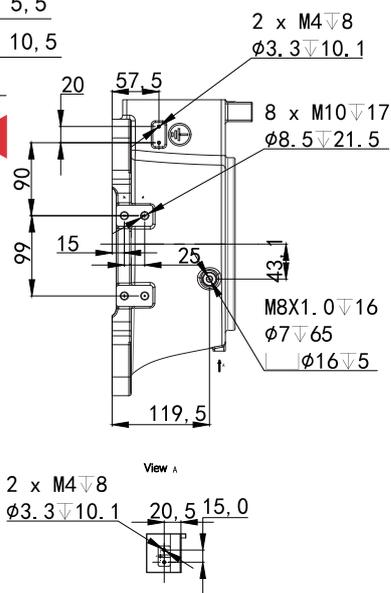
External dimensions and moving range



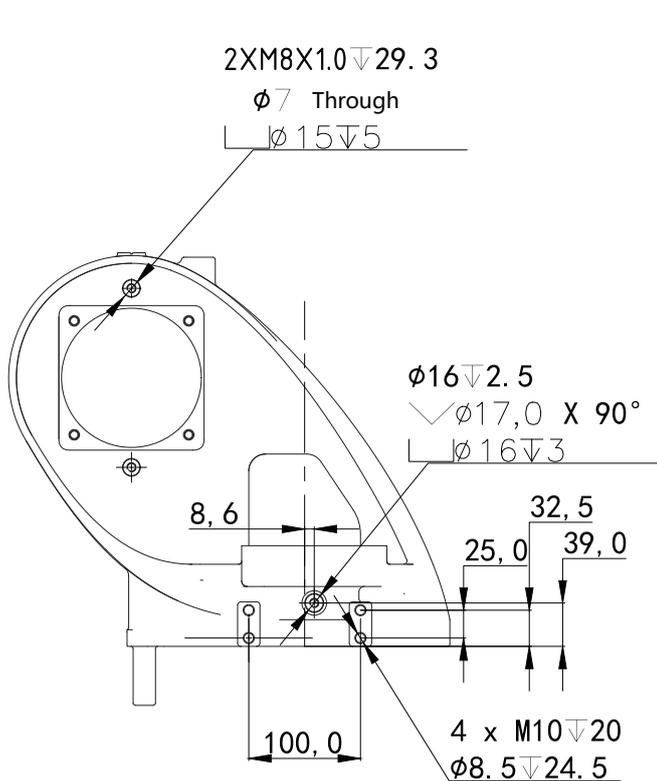
- Max payload**: 10KG
- Repeatability**: $\pm 0.03\text{mm}$
- Moving range**: 2050mm



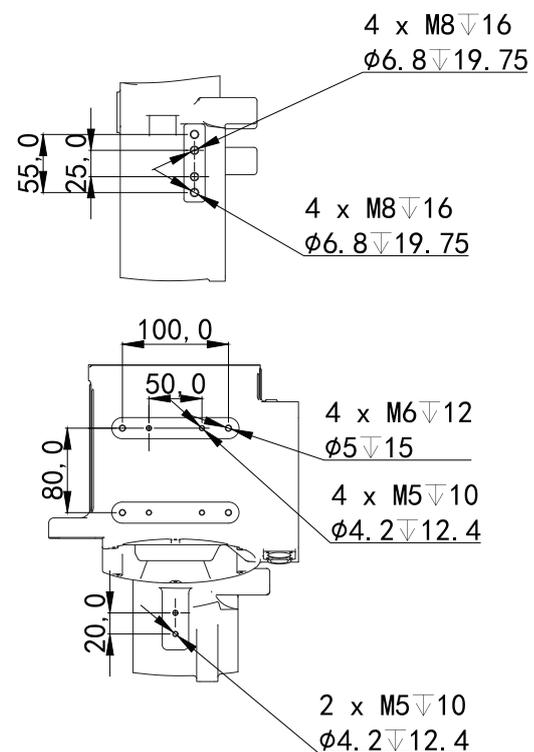
End flange installation dimensions



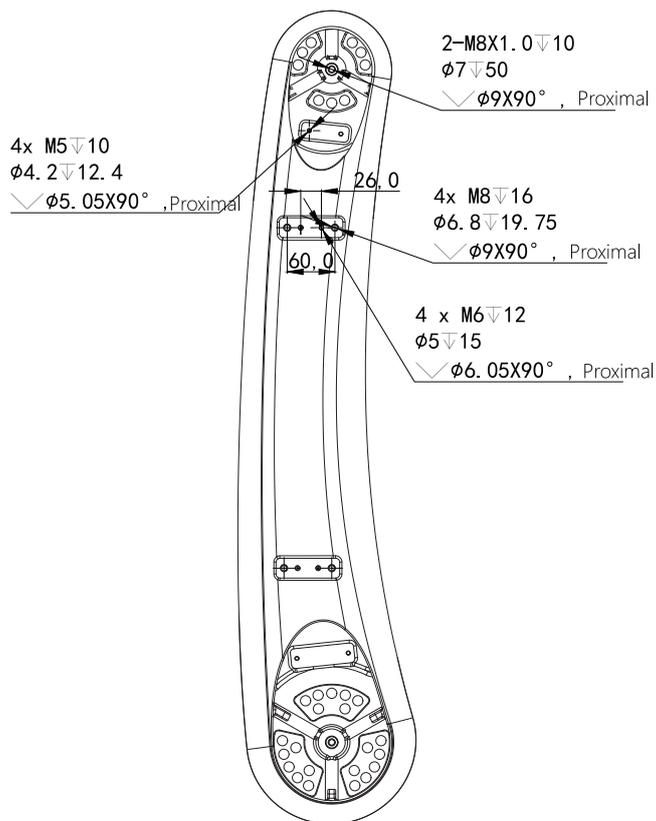
Base installation dimensions



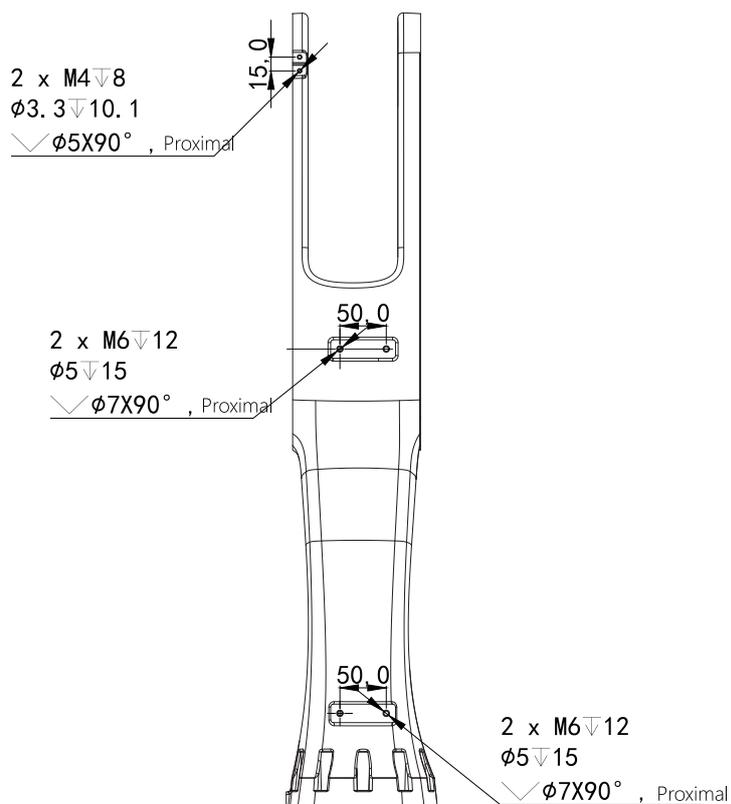
J2 transposition installation dimensions ◀



J4 motor seat installation dimensions ◀



J3 arm installation dimensions ◀



J5 wrist 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/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 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);supports external axis expansion
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

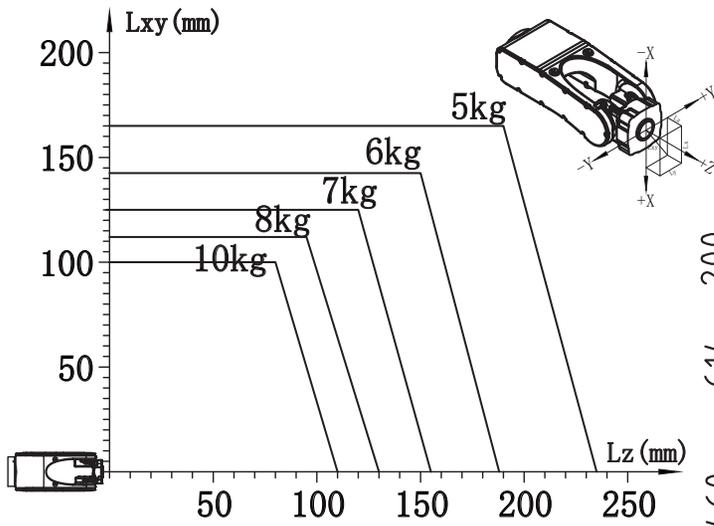


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Robot payload diagram

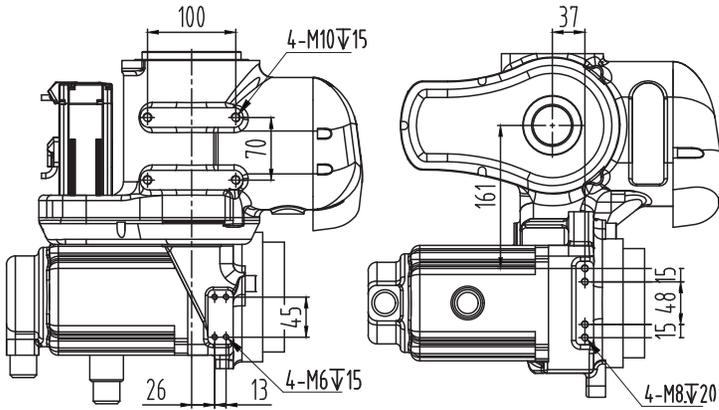
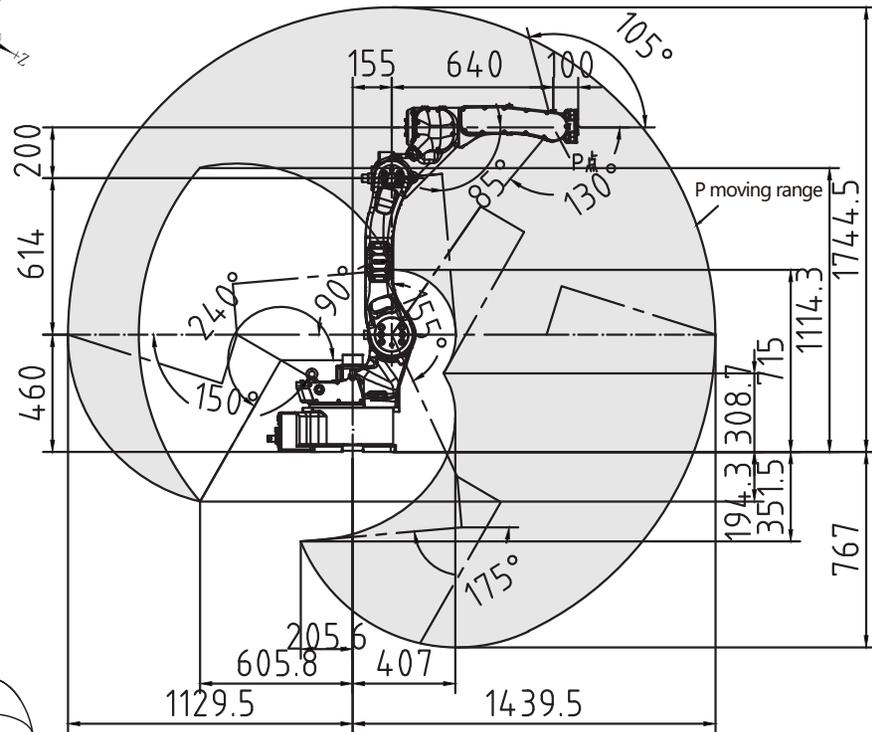


10KG
Max payload

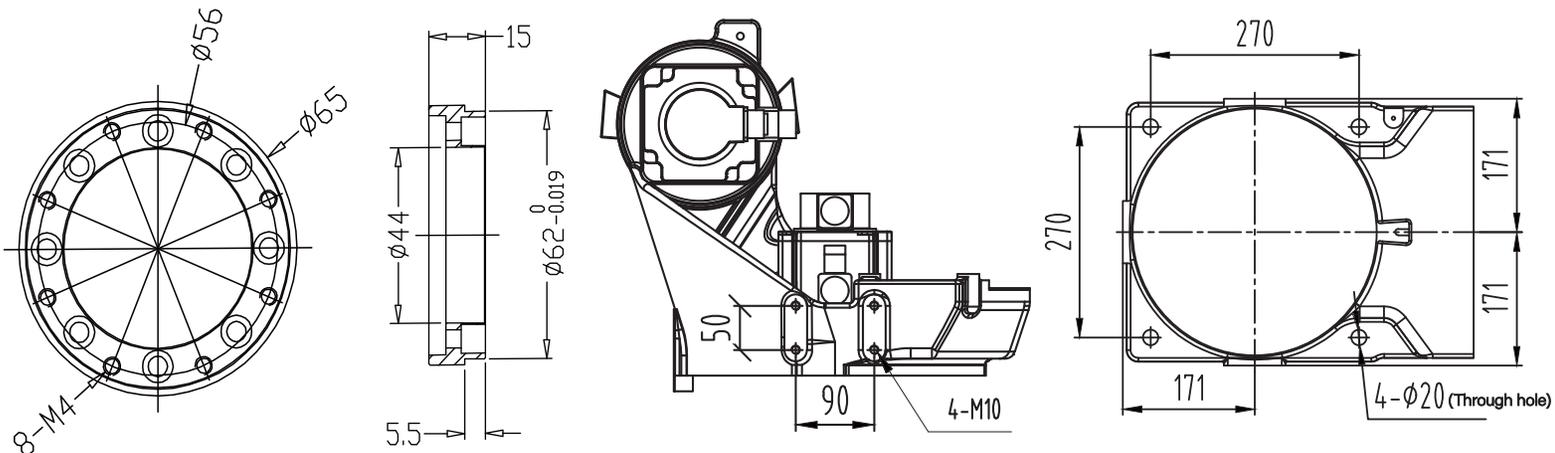
$\pm 0.05\text{mm}$
Repeatability

1440mm
Moving range

External dimensions and moving range



J4 installation dimensions



End flange installation dimensions

Turning base installation dimensions

Base installation dimensions

MR12-2010
(Discontinued)

PAYLOAD : 12KG

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

MOKA



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/ceiling	J6 axis T(N.m)		32.64

MADE BY MOKAROBOT

TECHNICAL SPECIFICATION
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 no 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 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: 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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ATTENTION

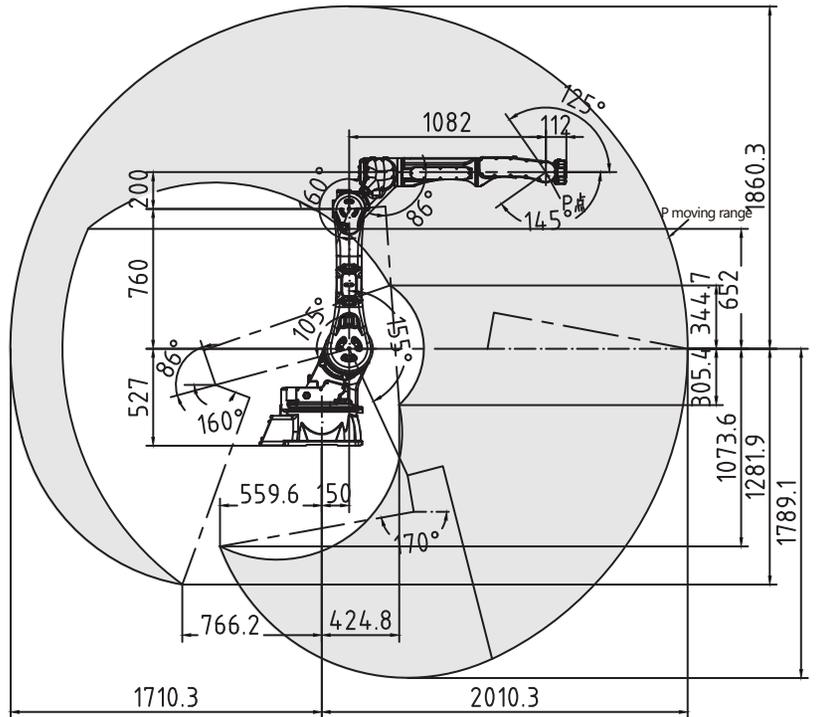
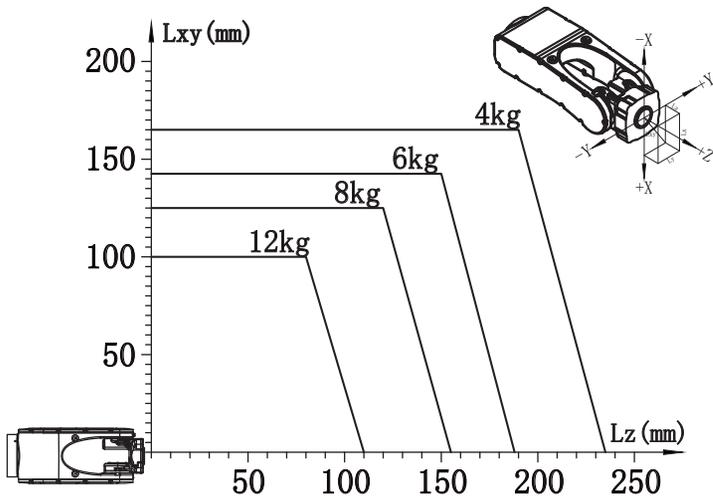
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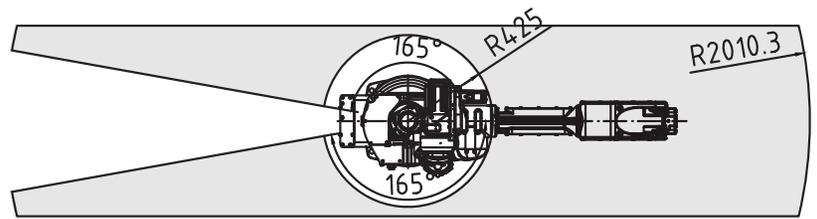
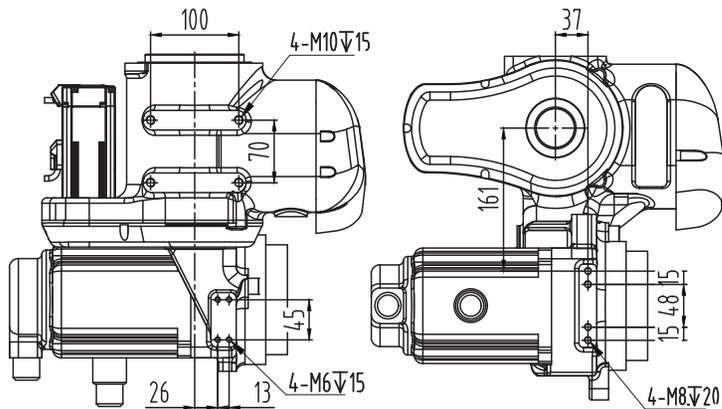
Robot payload diagram

External dimensions and moving range

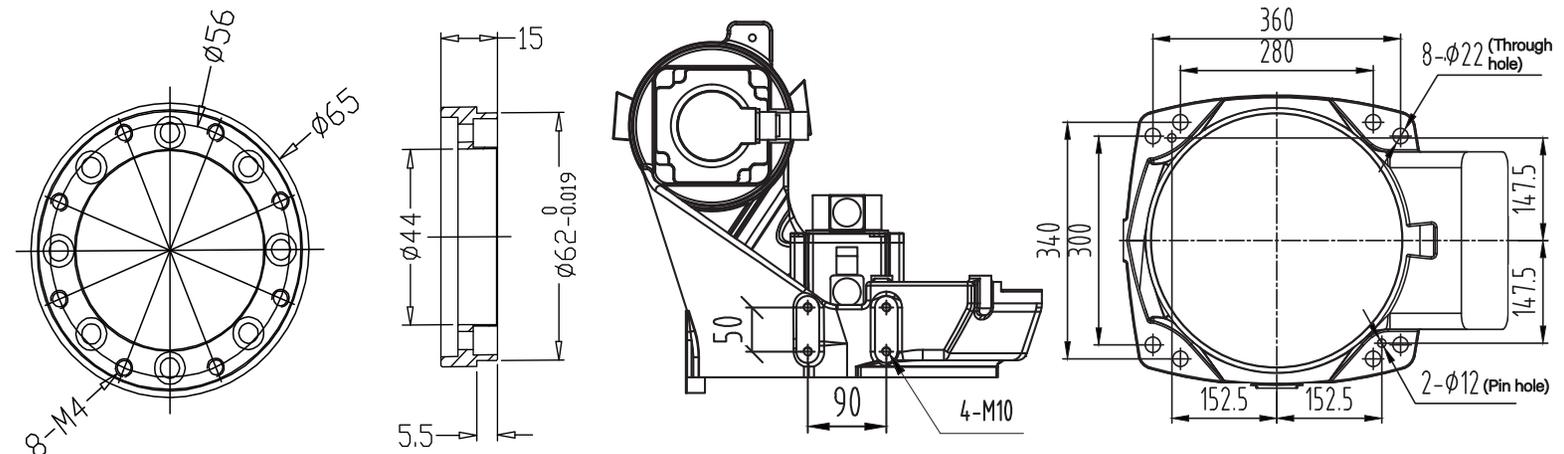
P moving range



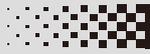
- 12KG** Max payload
- $\pm 0.05\text{mm}$ Repeatability
- 2010mm** Moving range



J4 installation dimensions



End flange installation dimensions **Turning base installation dimensions** **Base installation dimensions**



Axis	6-axis		Moving speed	Moving range
Motion radius	1550mm	J1 axis S	290°/s	±180°
Power capacity	8.0KVA	J2 axis L	237°/s	+90°~-170°
Payload	15KG	J3 axis U	270°/s	+155°~-90°
Protection class	IP65/IP67	J4 axis R	360°/s	±190°
Repeatability	±0.03mm	J5 axis B	360°/s	±135°
Robot mass	147KG	J6 axis T	700°/s	±360°
Power capacity	Φ8		Axis 4 R (N.m)	23
Signals	Standard 16 in/16 out 24 VDC		Axis 5 B (N.m)	23
Install	Floor		Axis 6 T (N.m)	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	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 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); support external axis expansion
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

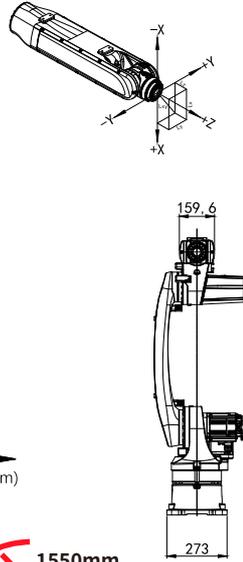
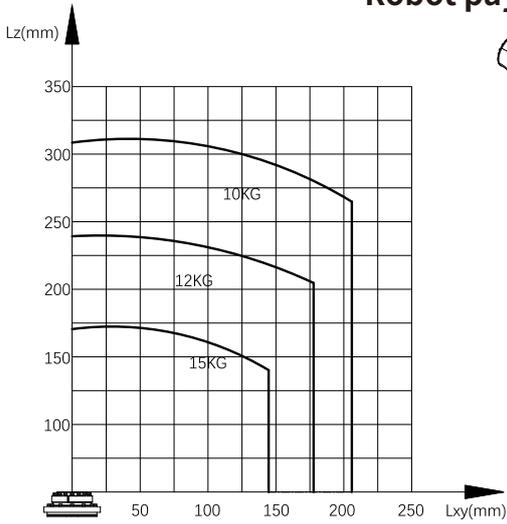
Please read the user manual and relevant documentations before use.

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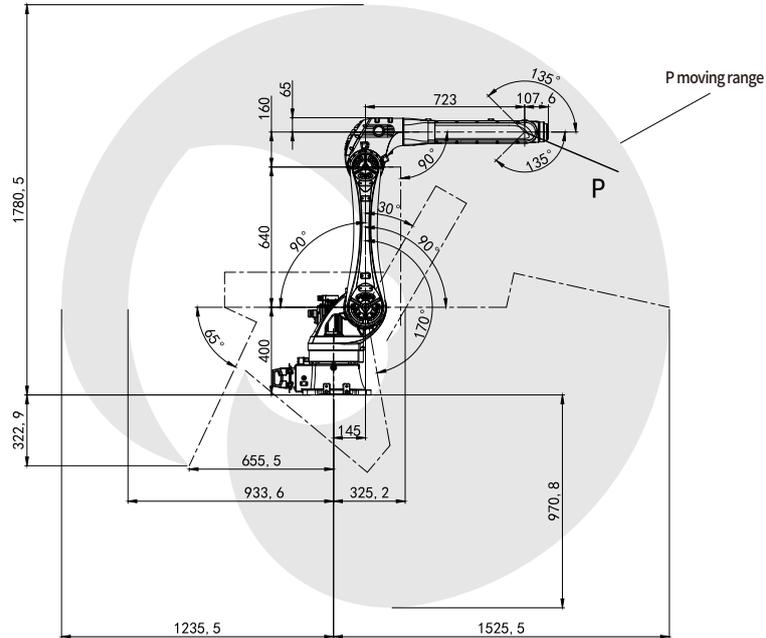


Robot payload diagram



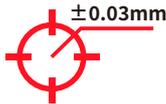
External dimensions and moving range

P moving range



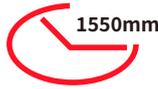
15KG

Max payload



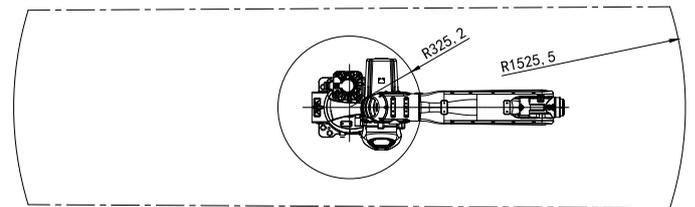
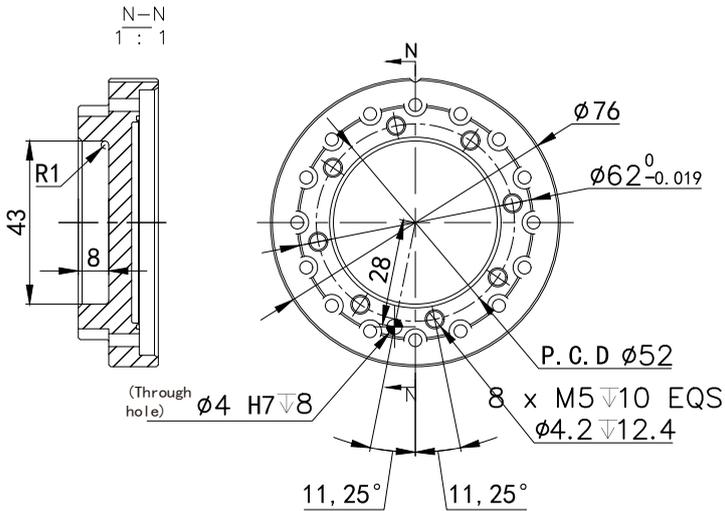
±0.03mm

Repeatability

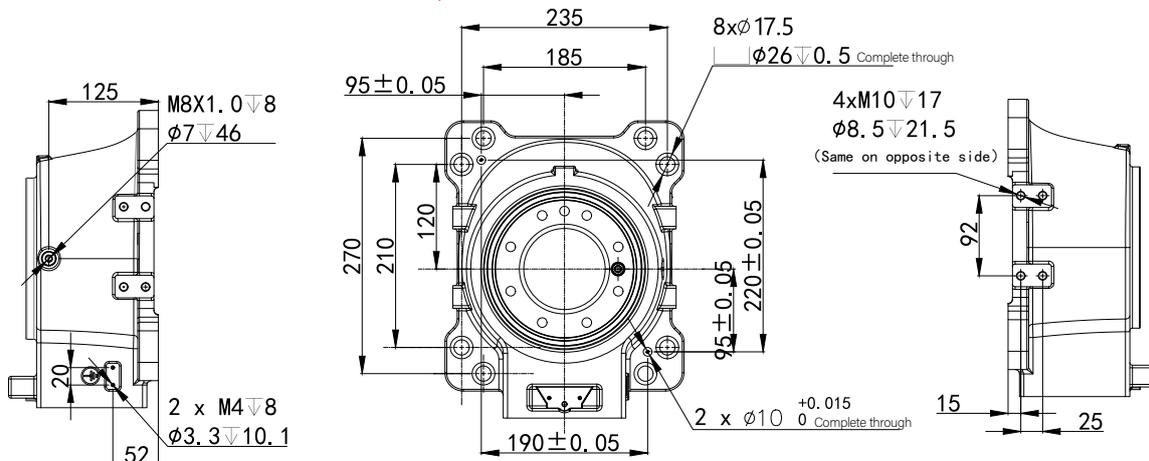


1550mm

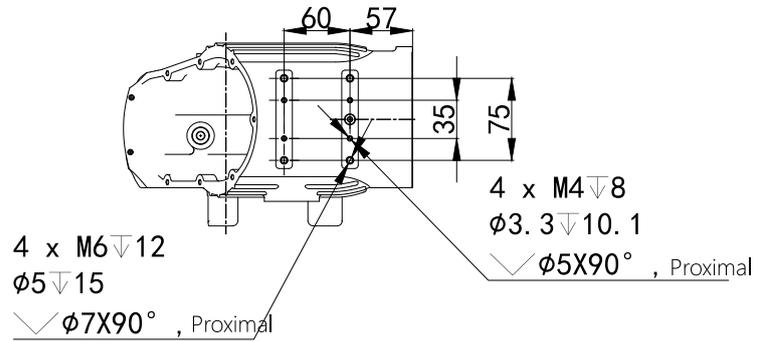
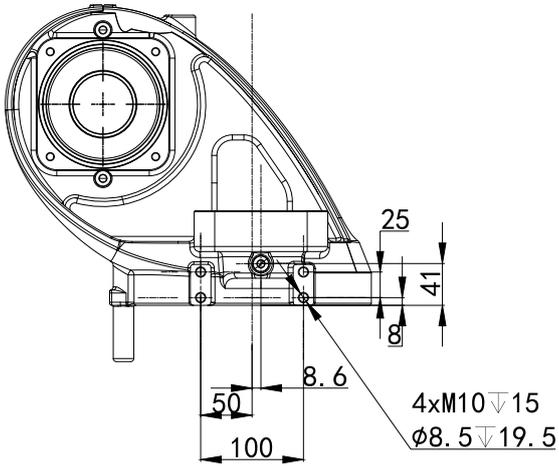
Moving range



End flange installation dimensions

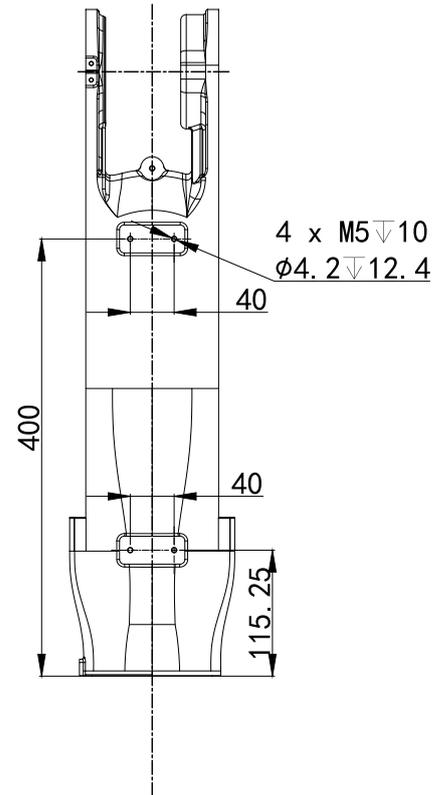
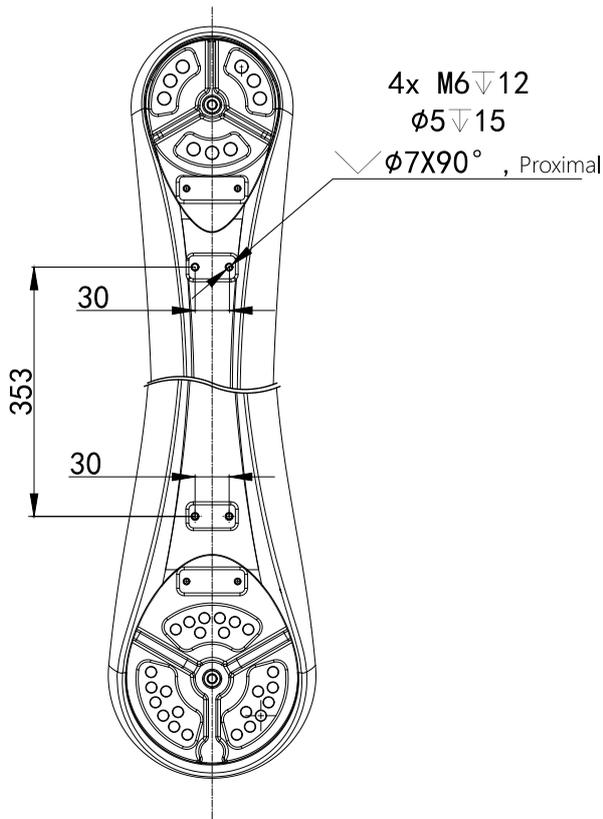


Base installation dimensions



J2 transposition installation dimensions ◀

J4 motor seat installation dimensions ◀



J3 arm installation dimensions ◀

J5 wrist installation dimensions ◀



Number of axis	6-axis		Maximum speed	Moving range
Motion radius	2060mm	J1 axis S	204°/s	±180°
Power capacity	4.5KVA	J2 axis L	206°/s	+90°~-160°
Max Payload	20KG	J3 axis U	285°/s	+85°~-155°
Protection class	IP65/IP67	J4 axis R	360°/s	±190°
Repeatability	±0.05mm	J5 axis B	409°/s	±135°
Robot mass	207KG	J6 axis T	654°/s	±360°
Built-in air tube	Φ10	J4 axis R(N.m)		45
Input/Output signals	Standard 16 in/16 out 24 VDC	J5 axis B(N.m)		45
Mounting position	Floor/frame/ceiling	J6 axis T(N.m)		28



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 no 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 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); support external axis expansion
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

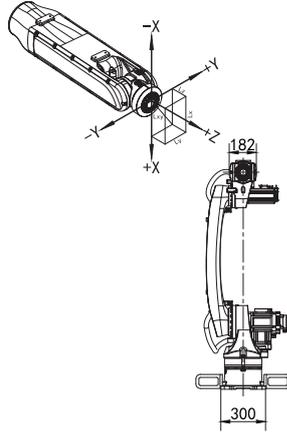
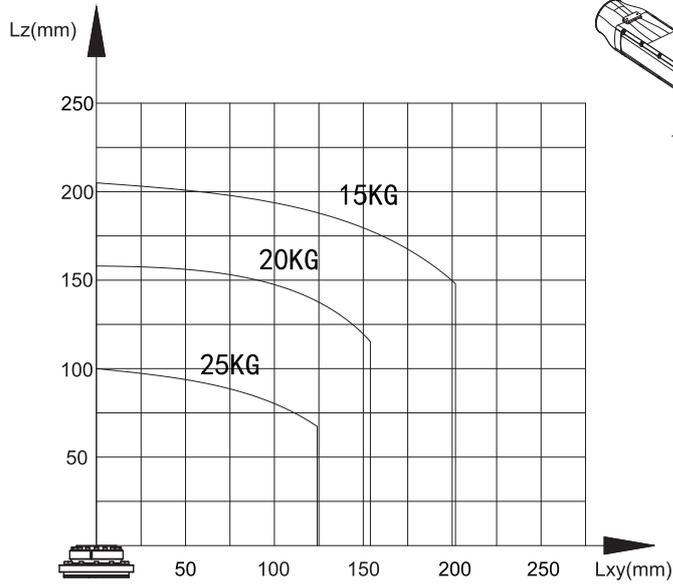
Selector, axis operation, value, mode selection with key (teach mode/auto mode/remote mode), emergency stop, enable, USB port etc



ATTENTION

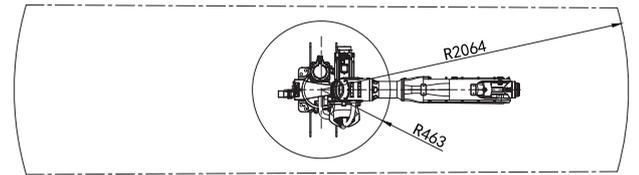
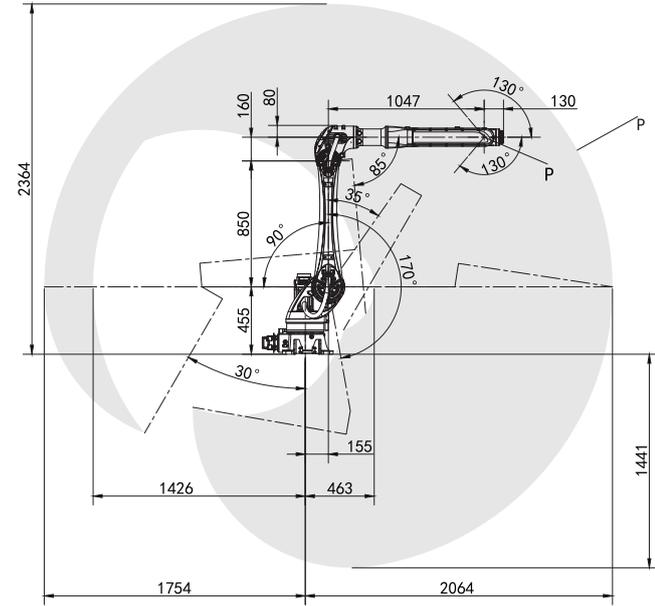
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Robot payload diagram



External dimensions and moving range

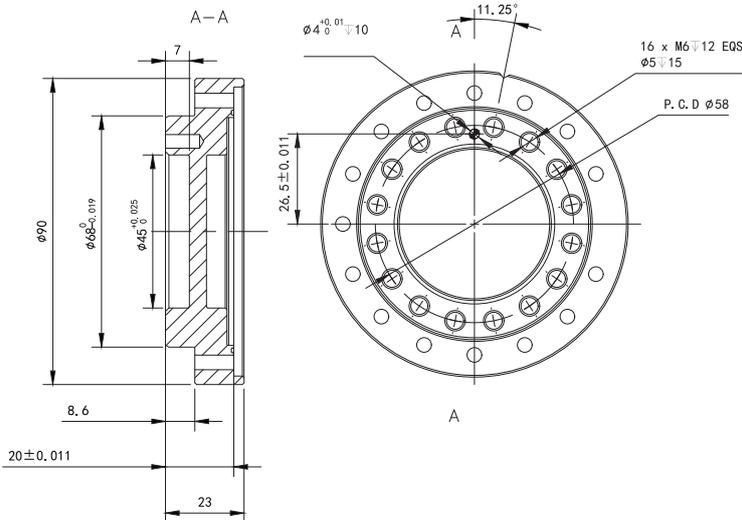
P moving range



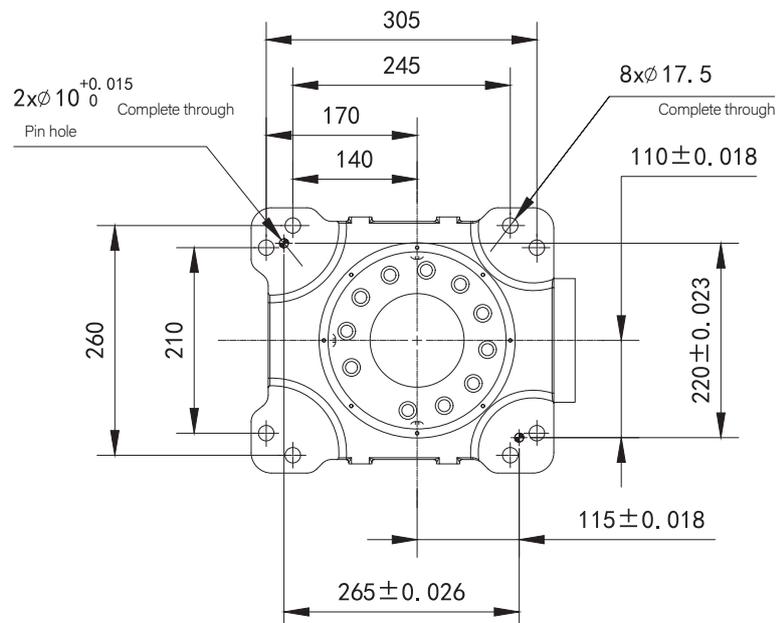
20KG
Max payload

$\pm 0.05\text{mm}$
Repeatability

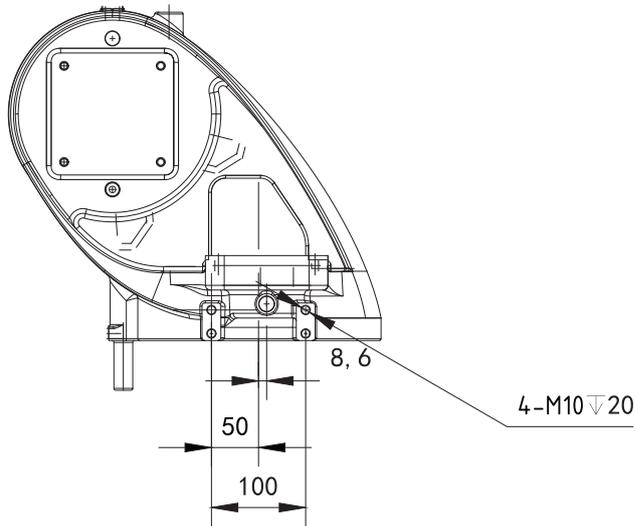
2060mm
Moving range



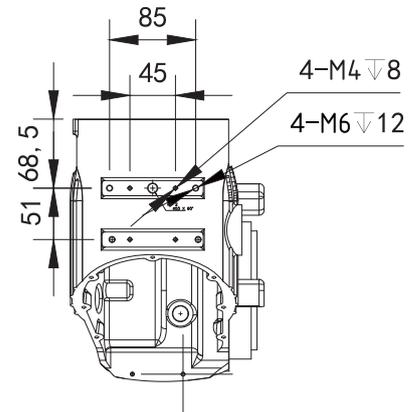
End flange installation dimensions



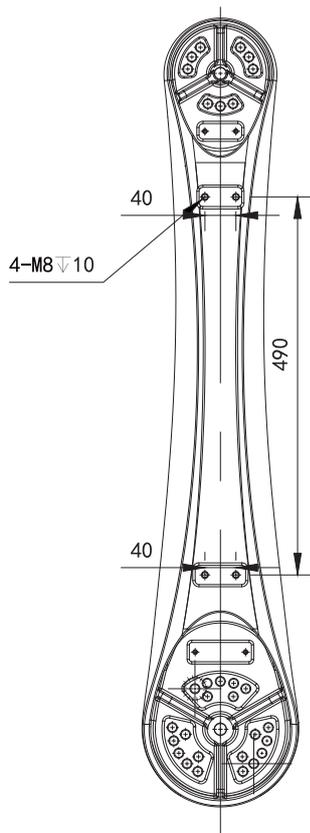
Base installation dimensions



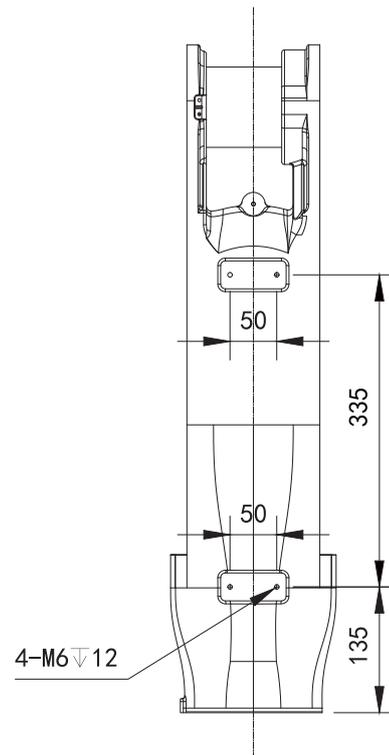
J2 transposition installation dimensions ◀



J4 motor seat installation dimensions ◀



J3 arm installation dimensions ◀



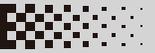
J5 wrist installation dimensions ◀

MB25-1840

PAYLOAD : 25KG

REPEATABILITY : $\pm 0.02\text{mm}$

MOKA



Number of axis	6-axis		Maximum speed	Moving range
Motion radius	1840mm	J1 axis S	204°/s	$\pm 180^\circ$
Power capacity	4.5KVA	J2 axis L	206°/s	+90°~-160°
Max Payload	25KG	J3 axis U	285°/s	+85°~-155°
Protection class	IP65/IP67	J4 axis R	360°/s	$\pm 190^\circ$
Repeatability	$\pm 0.02\text{mm}$	J5 axis B	409°/s	$\pm 135^\circ$
Robot mass	203KG	J6 axis T	654°/s	$\pm 360^\circ$
Built-in air tube	$\Phi 10$	J4 axis R(N.m)		50
Input/Output signals	Standard 16 in/16 out 24 VDC	J5 axis B(N.m)		50
Mounting position	Floor/frame/ceiling	J6 axis T(N.m)		30

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TECHNICAL SPECIFICATION
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 no 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 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

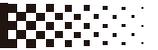
External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED,640*480 pixels
Protection class	IP54
Cable Length	Standard:5m Optional:15m

Manipulator

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


ATTENTION

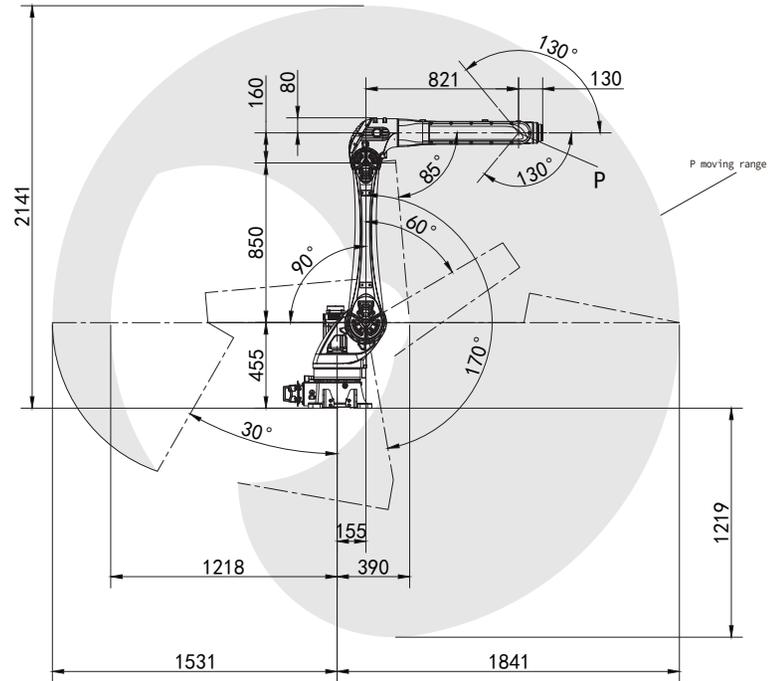
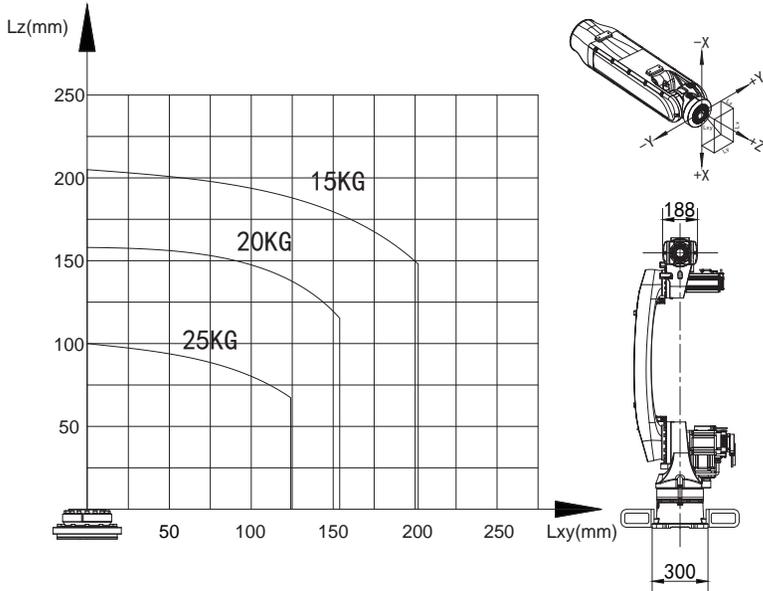
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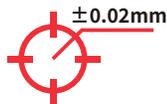
Robot payload diagram

External dimensions and moving range

P moving range



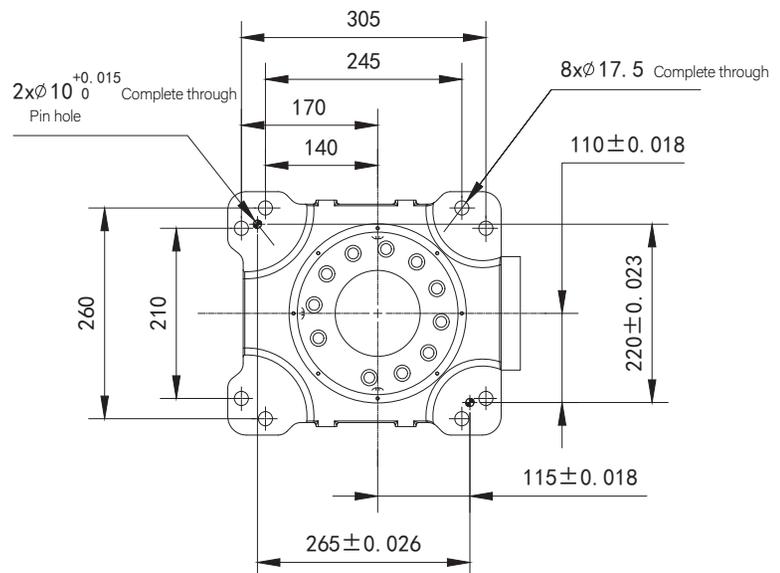
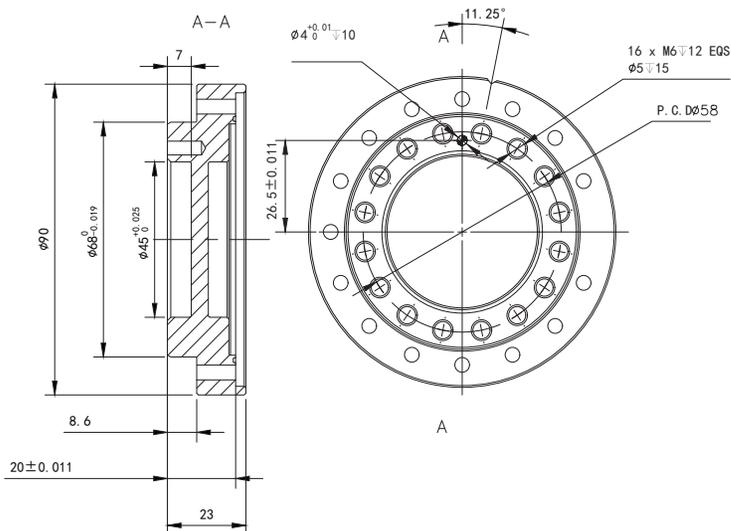
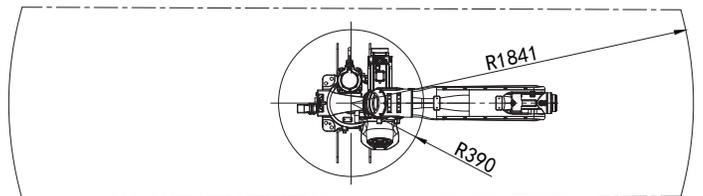
Max payload



Repeatability

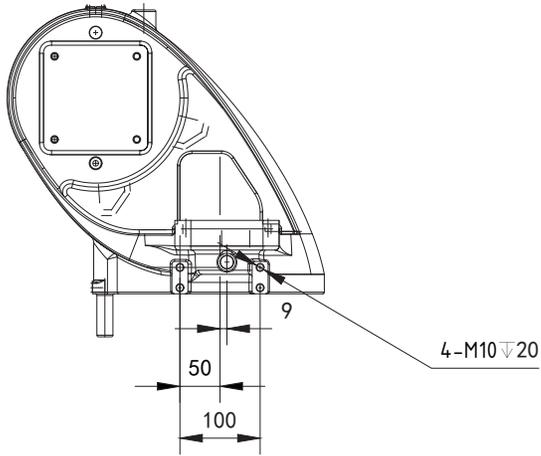


Moving range

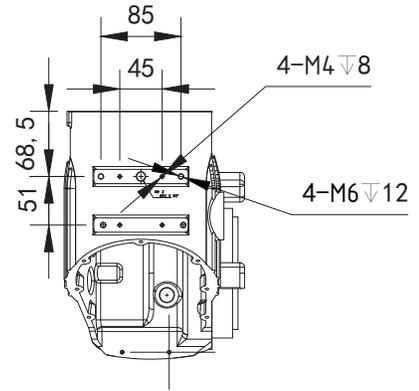


End flange installation dimensions

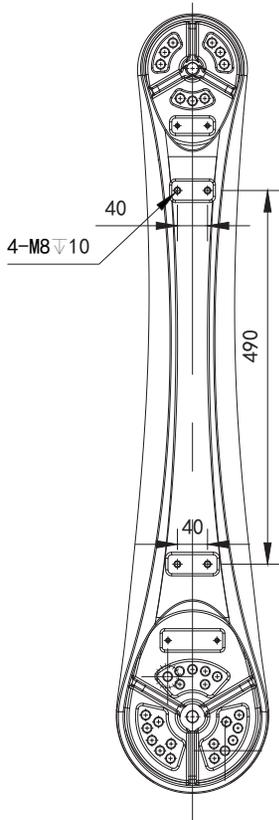
Base installation dimensions



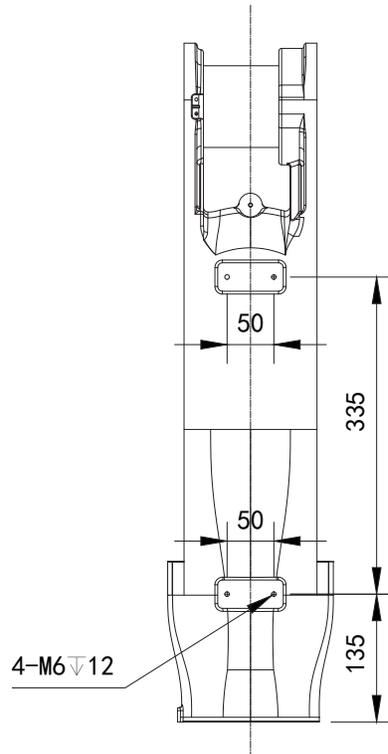
J2 transposition installation dimensions



J4 motor seat installation dimensions



J3 arm installation dimensions



J5 wrist installation dimensions

MB30-2100**PAYLOAD : 30KG****REPEATABILITY : ±0.05mm****MOKA**

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°
Payload	30KG	J3 axis U	270°/s	+200°~-80°
Protection class	IP54/IP67	J4 axis R	470°/s	±200°
Repeatability	±0.05mm	J5 axis B	405°/s	±130°
Robot mass	264KG	J6 axis T	650°/s	±360°
Built-in air tube	Φ8	J4 axis R(N.m)		80
Signals	Standard 16 in/16 out 24 VDC	J5 axis B(N.m)		80
Install	Floor/frame/ceiling	J6 axis T(N.m)		50

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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 AC 380V 50/60HZ(BUILT-IN AC380V TO AC220V ISOLATION 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

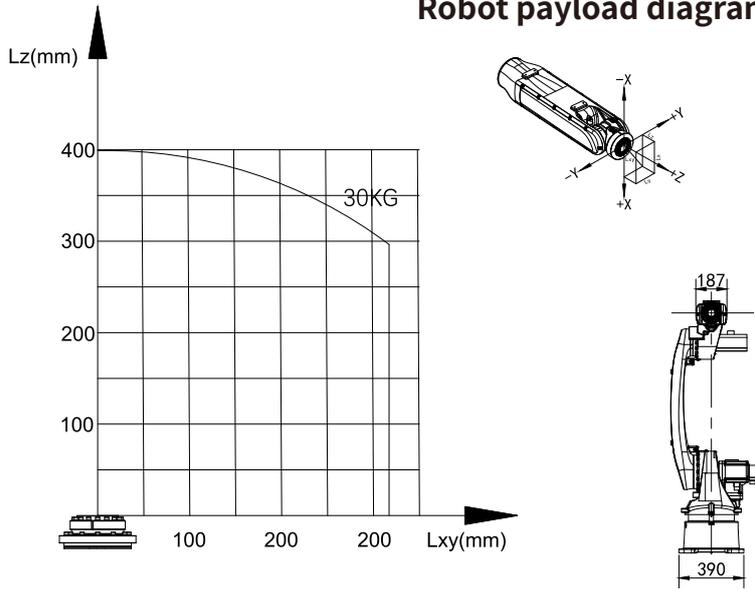


ATTENTION

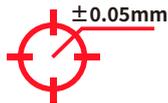
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Robot payload diagram



Max payload



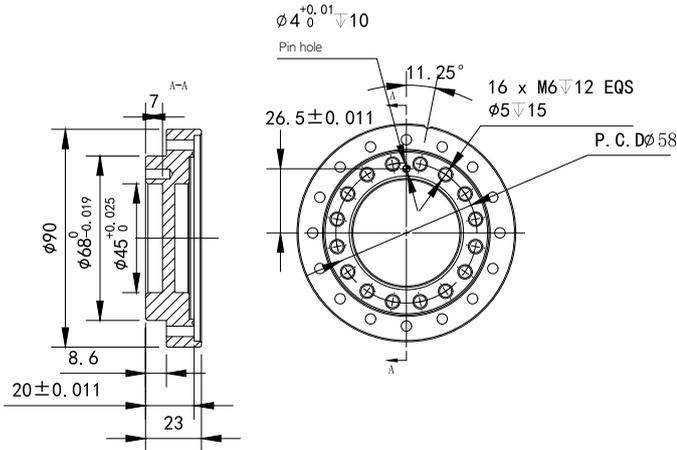
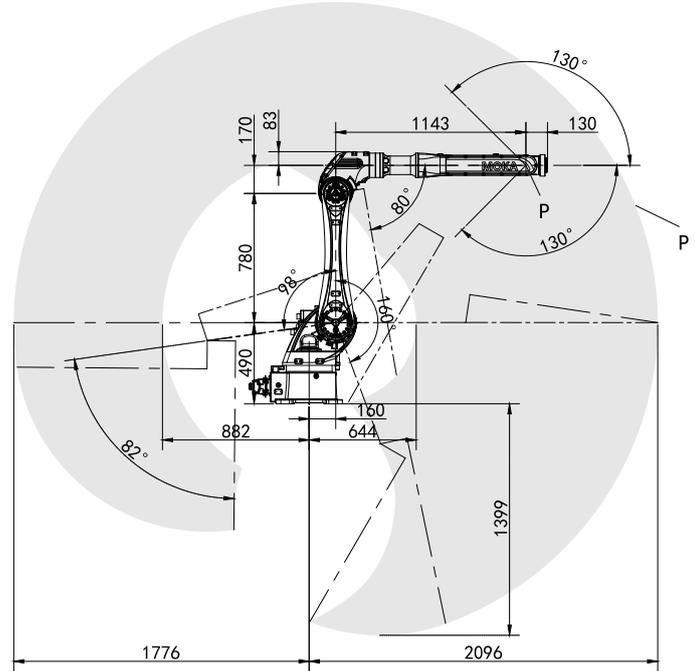
Repeatability



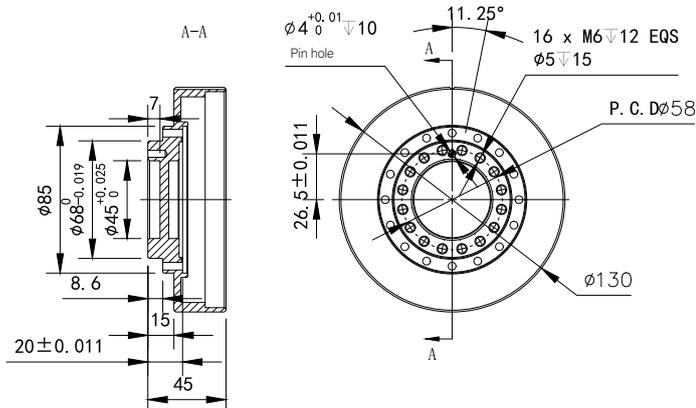
Moving range

External dimensions and moving range

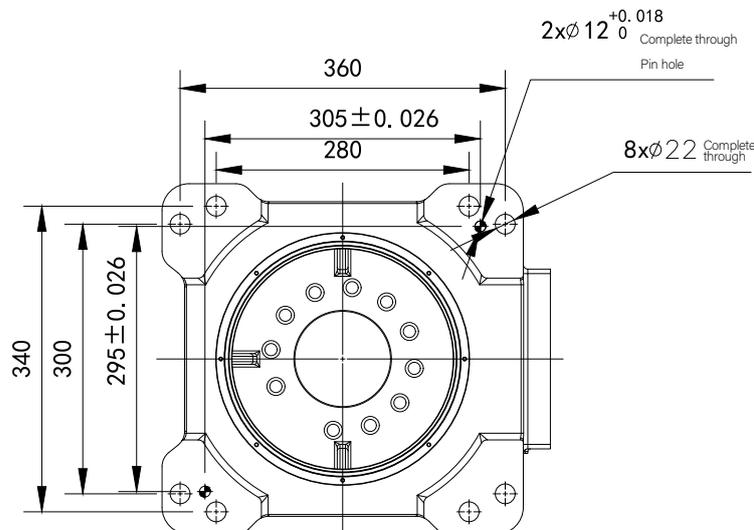
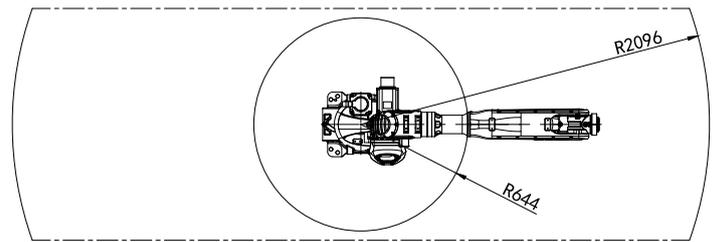
P moving range



End flange installation dimensions



End flange installation dimensions (waterproof) Only for polishing and die-casting industries



Base installation dimensions



Number of axis	6-axis		Maximum speed	Moving range
Motion radius	1870mm	J1 axis S	202°/s	$\pm 180^\circ$
Power capacity	8.0KVA	J2 axis L	211°/s	+98°~-160°
Max Payload	35KG	J3 axis U	234°/s	+200°~-80°
Repeatability	$\pm 0.03\text{mm}$	J4 axis R	470°/s	$\pm 200^\circ$
Robot mass	260KG	J5 axis B	405°/s	$\pm 130^\circ$
Built-in air tube	$\Phi 8$	J6 axis T	535°/s	$\pm 360^\circ$
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)
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 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

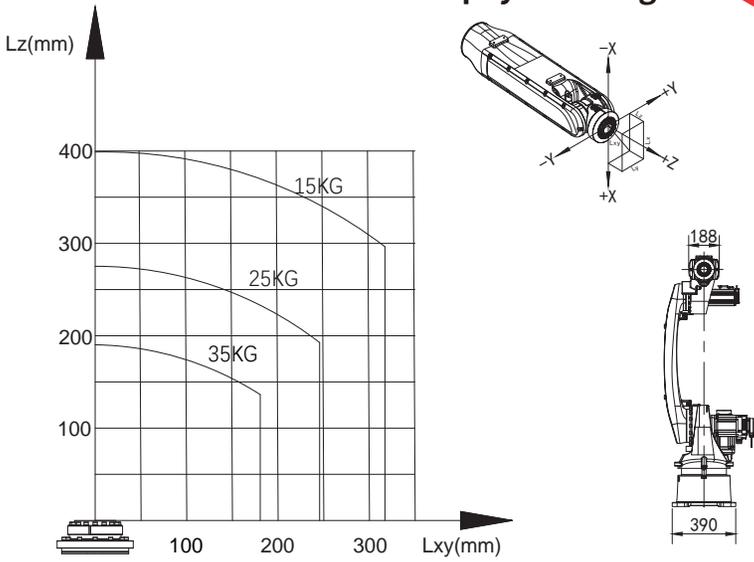
Selector, axis operation, value, mode selection with key (teach mode/auto mode/remote mode), emergency stop, enable, USB port etc



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Robot payload diagram

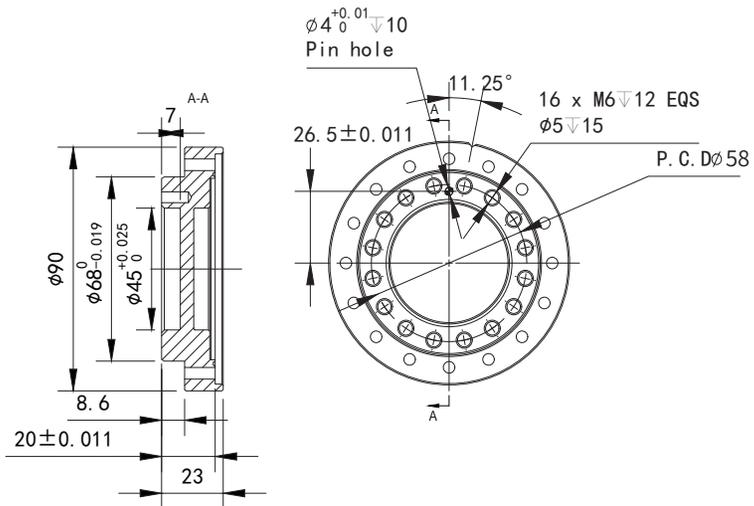
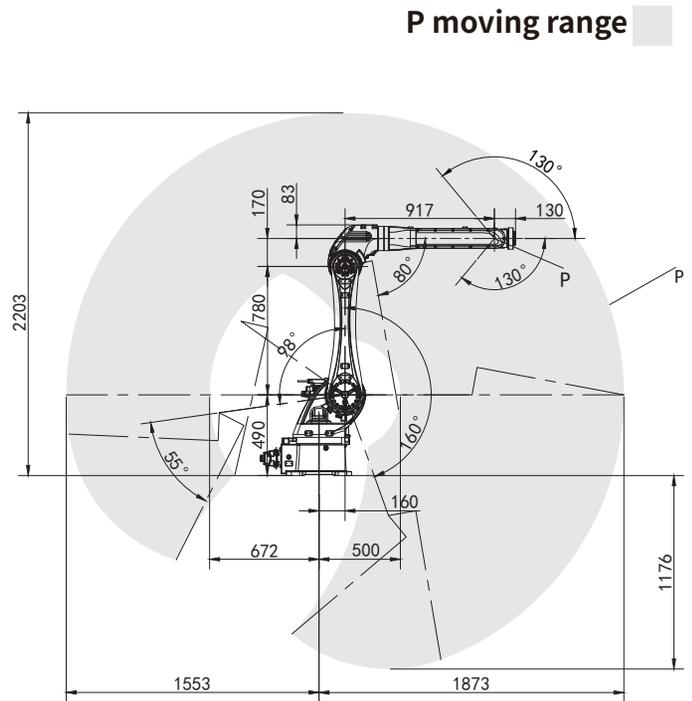


35KG
Max payload

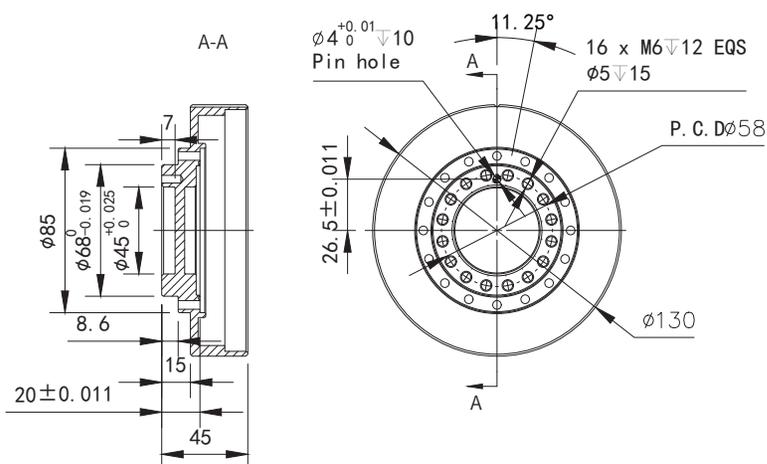
$\pm 0.03\text{mm}$
Repeatability

1870mm
Moving range

External dimensions and moving range

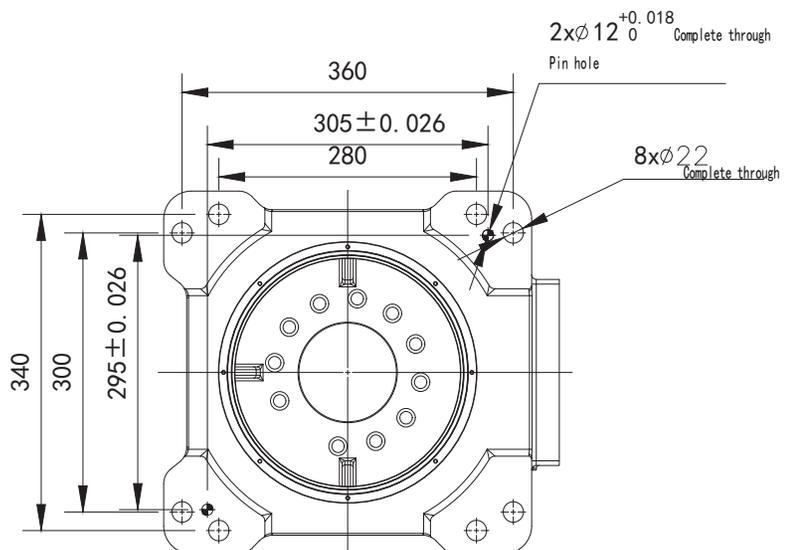
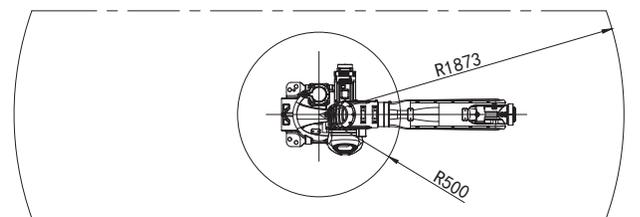


End flange installation dimensions

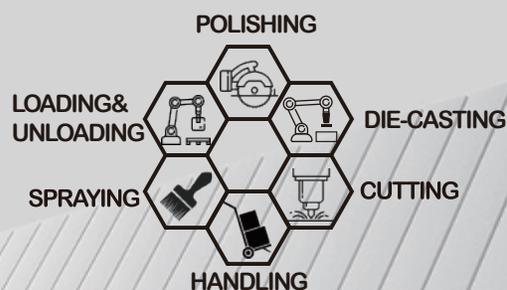


End flange installation dimensions

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



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	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	±130°
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 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); support external axis expansion
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: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

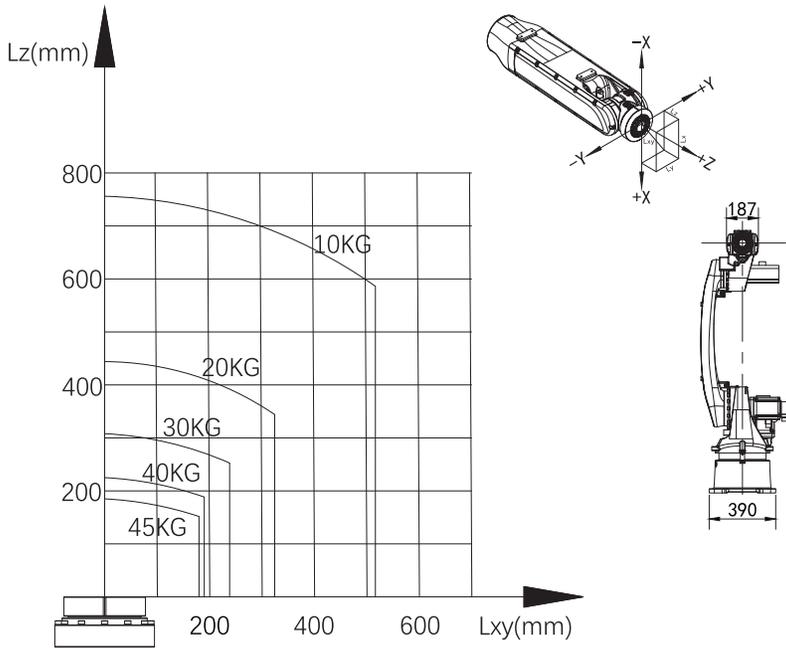
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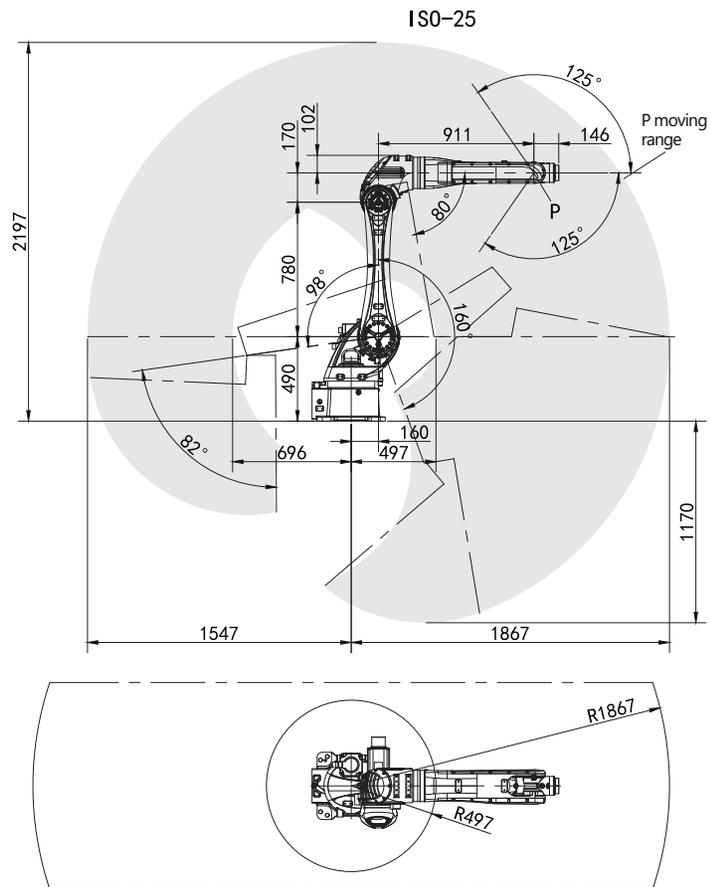


Robot payload diagram



External dimensions and moving range

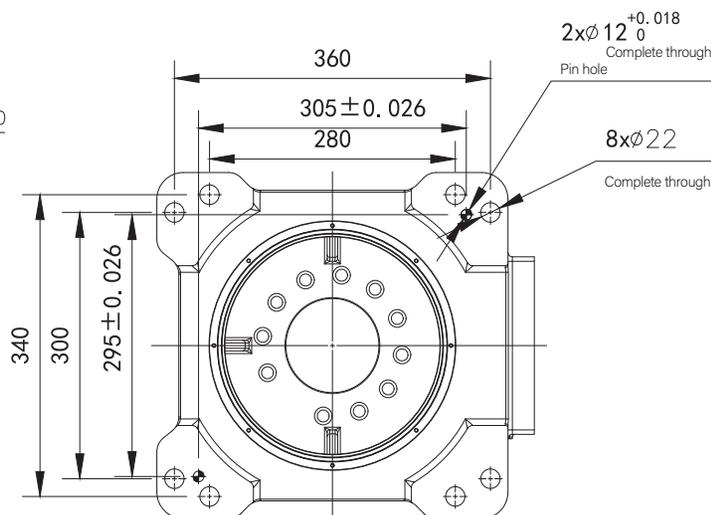
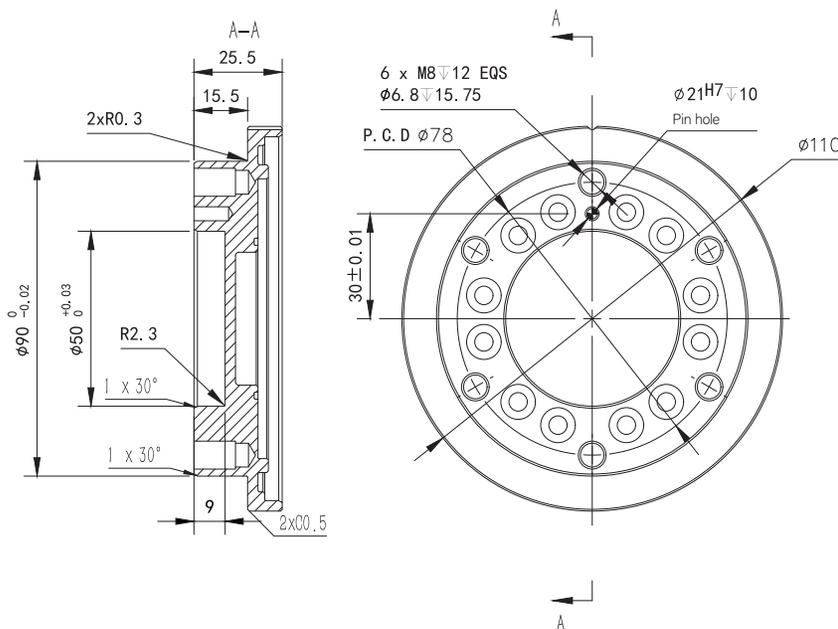
P moving range



45KG
Max payload

$\pm 0.03\text{mm}$
Repeatability

1870mm
Moving range



End flange installation dimensions

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

Base installation dimensions



DIE-CASTING

Number of axis	6-axis	Maximum speed		Moving range
Motion radius	1860mm	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	310°/s	±200°
Robot mass	281KG	J5 axis B	275°/s	±360°
Built-in air tube	Φ8	J6 axis T	275°/s	±360°
Protection class	IP65/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	J6 axis T(N.m)	Axis 6 T (N.m)	100



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MB50-2650

PAYLOAD : 50KG

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

MOKA



Number of axis	6-axis		Maximum speed	Moving range
Motion radius	2650mm	J1 axis S	180°/s	$\pm 180^\circ$
Power capacity	8.0KVA	J2 axis L	155°/s	+120°~-150°
Max Payload	50KG	J3 axis U	200°/s	+190°~-80°
Protection class	IP67	J4 axis R	260°/s	$\pm 190^\circ$
Repeatability	$\pm 0.05\text{mm}$	J5 axis B	260°/s	$\pm 125^\circ$
Robot mass	500KG	J6 axis T	370°/s	$\pm 360^\circ$
Built-in air tube	$\Phi 8$	J4 axis R(N.m)		262
Input/Output signals	Standard 16 in/16 out 24 VDC	J5 axis B(N.m)		262
Mounting position	Floor	J6 axis T(N.m)		193



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)
Rough quality	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); support external axis expansion
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.

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:15m

Manipulator

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



ATTENTION

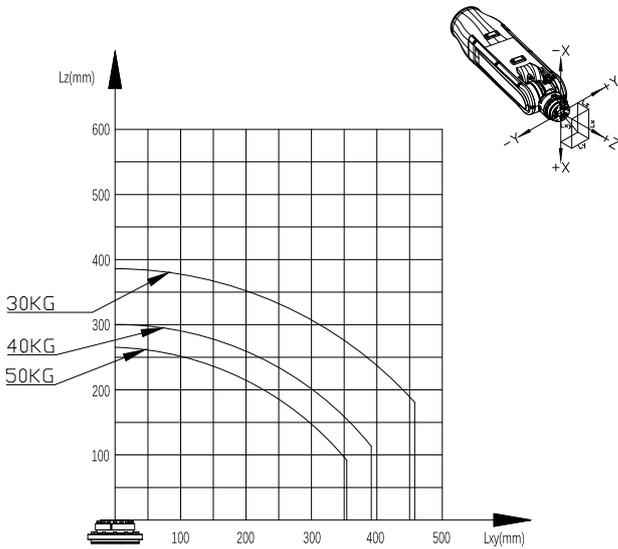
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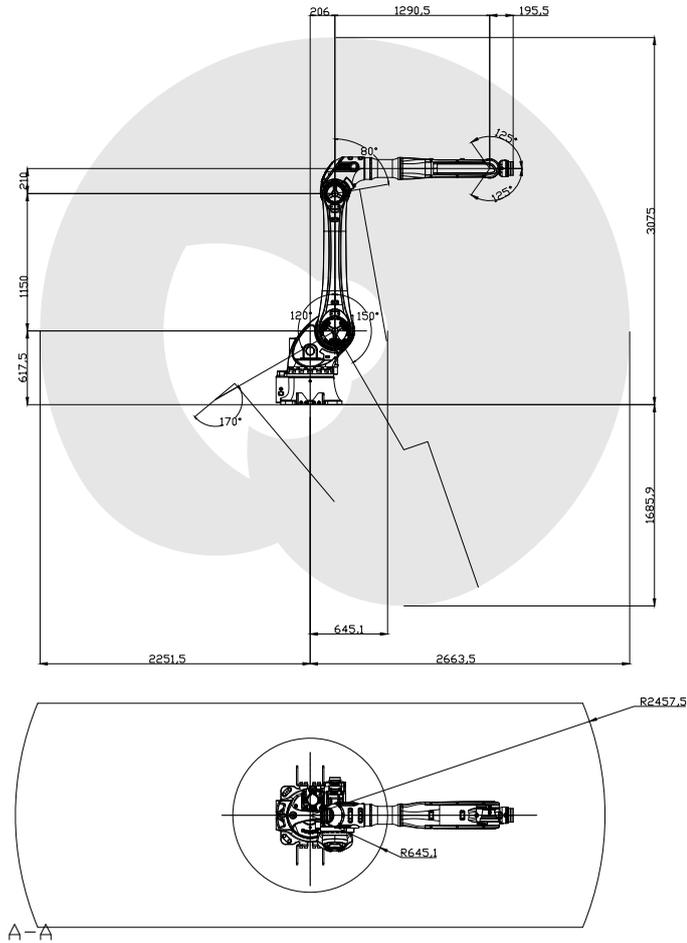


Robot payload diagram



External dimensions and moving range

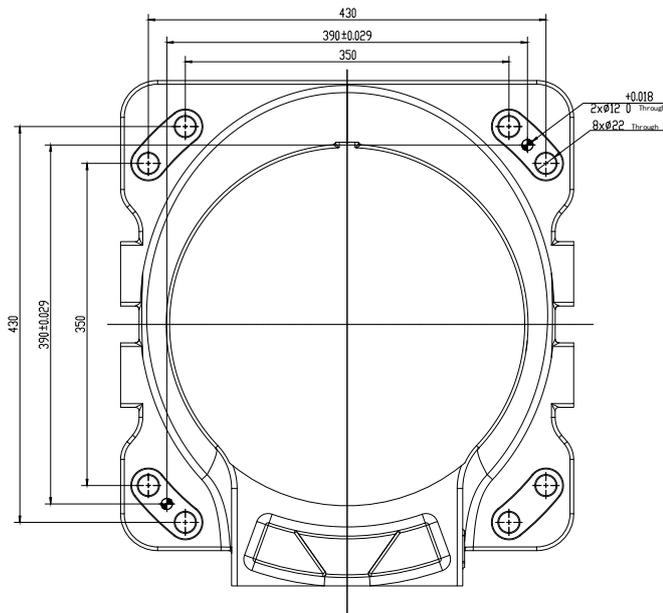
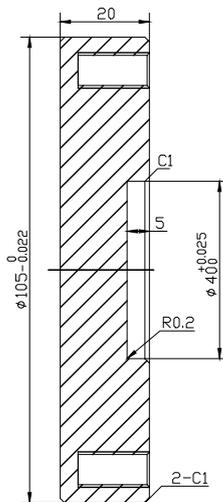
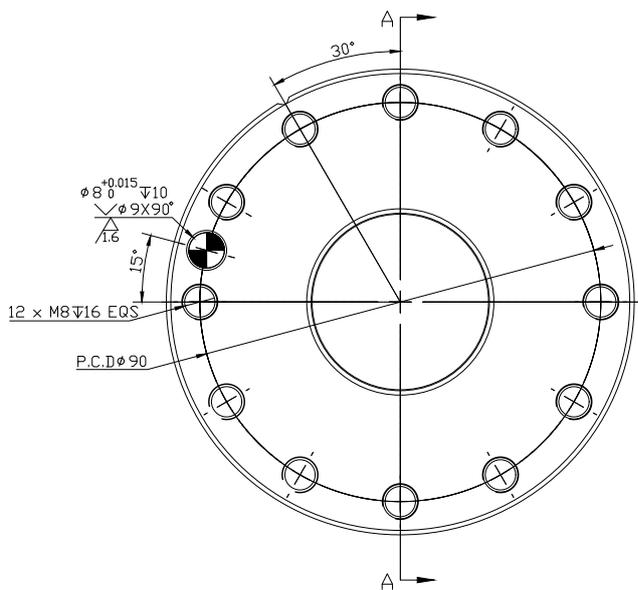
P moving range



50KG
Max payload

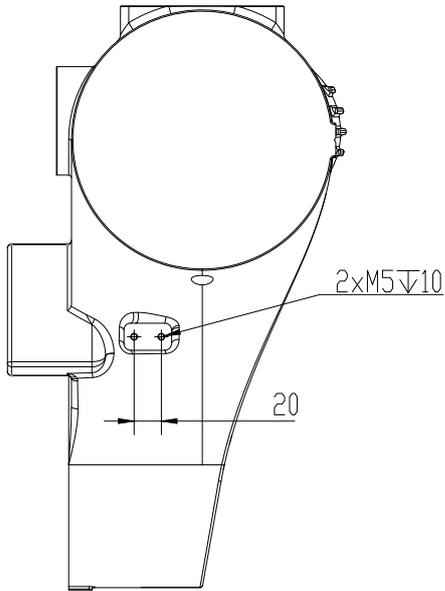
$\pm 0.05\text{mm}$
Repeatability

2650mm
Moving range

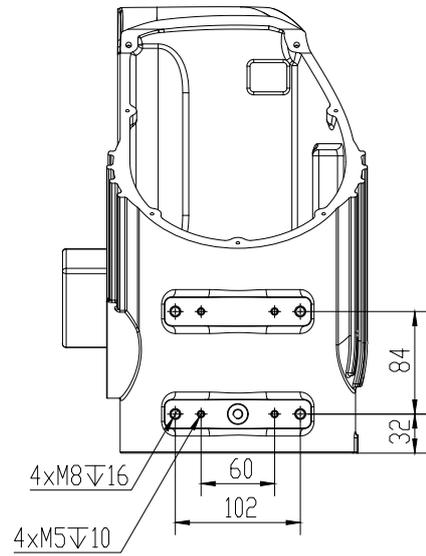


End flange installation dimensions

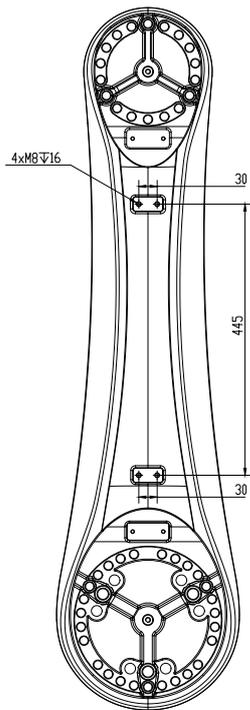
Base installation dimensions



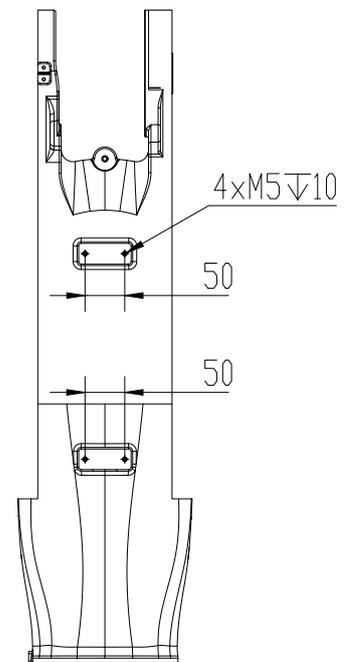
J2 transposition installation dimensions ◀



J4 motor seat installation dimensions ◀



J3 arm installation dimensions ◀



J5 wrist installation dimensions ◀

MB70-2150**PAYLOAD :70KG****REPEATABILITY : ±0.05mm****MOKA**

Axis	6-axis		Moving speed	Moving range
Motion radius	2150mm	J1 axis S	180°/s	±180°
Power capacity	8.0KVA	J2 axis L	155°/s	+120°~-150°
Payload	70KG	J3 axis U	200°/s	+190°~-80°
Repeatability	±0.05mm	J4 axis R	260°/s	±190°
Robot mass	545KG	J5 axis B	260°/s	±125°
Power capacity	Φ8	J6 axis T	370°/s	±360°
Protection class	IP67		Axis 4 R (N.m)	262
Signals	Standard 16 in/16 out 24 VDC		Axis 5 B (N.m)	262
Install	Floor		Axis 6 T (N.m)	193

MADE BY MOKAROBOT



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)
Rough quality	170KG
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);support external axis expansion
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.
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

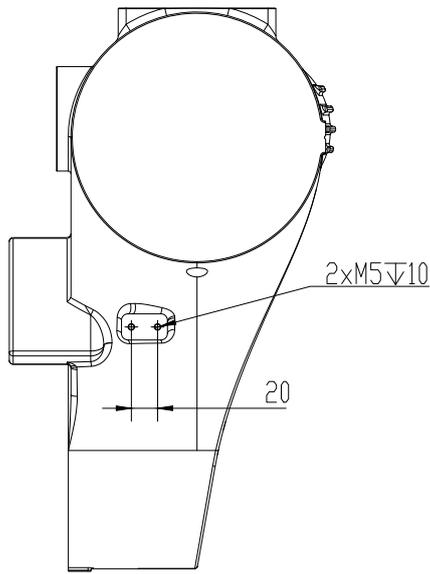
External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED,640*480 pixels
Protection class	IP54
Cable Length	Standard:5m Optional:15m

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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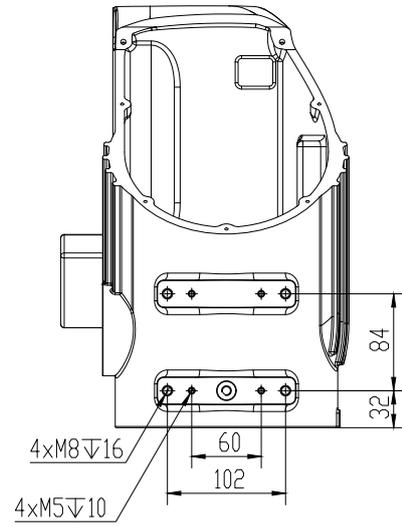


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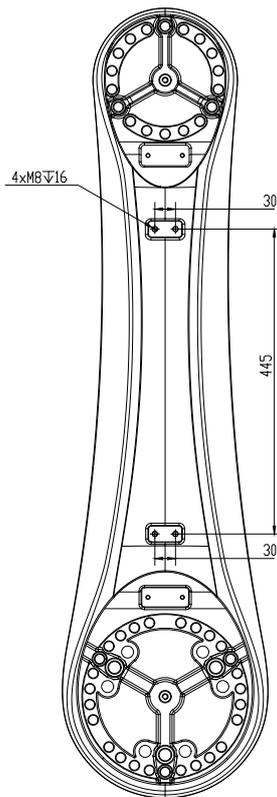
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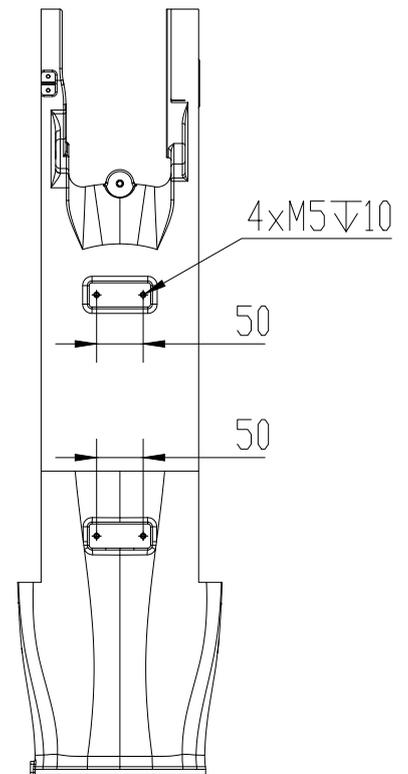
J2 transposition installation dimensions ◀



J4 motor seat installation dimensions ◀



J3 arm installation dimensions ◀



J5 wrist installation dimensions ◀



Number of axis	6-axis		Maximum speed	Moving range
Motion radius	3200mm	J1 axis S	115°/s	±180°
Power capacity	25.0KVA	J2 axis L	95°/s	+60°~-80°
Max Payload	150KG	J3 axis U	115°/s	+157.5°~-80°
Protection class	IP54/IP67	J4 axis R	170°/s	±190°
Repeatability	±0.06mm	J5 axis B	145°/s	±125°
Robot mass	1105KG	J6 axis T	210°/s	±360°
Built-in air tube	Φ10	J4 axis R(N.m)		1045
Input/Output signals	Standard 16 in/16 out 24 VDC	J5 axis B(N.m)		1045
Mounting position	Floor	J6 axis T(N.m)		858



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)
Rough quality	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); support external axis expansion
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.

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 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: 5m Optional: 15m

Manipulator

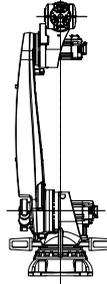
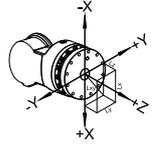
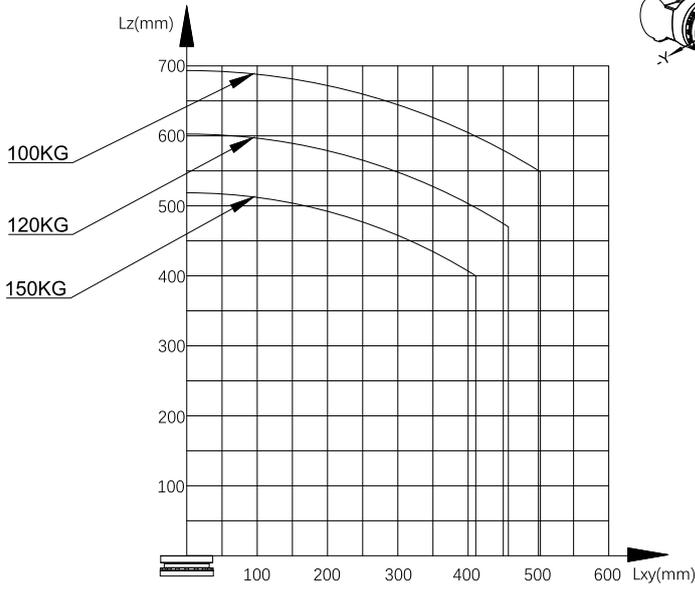
Selector, axis operation, value, mode selection with key (teach mode/auto mode/remote mode), emergency stop, enable, USB port etc



ATTENTION

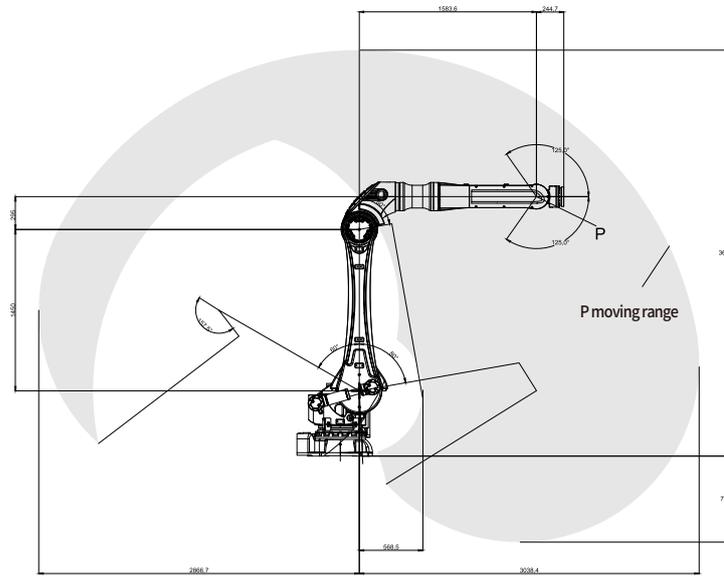
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Robot payload diagram



External dimensions and moving range

P moving range



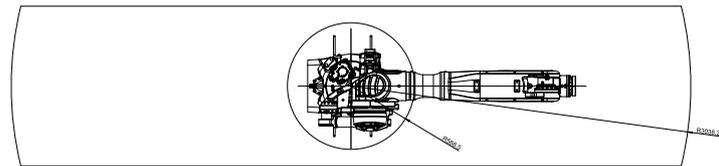
Max payload



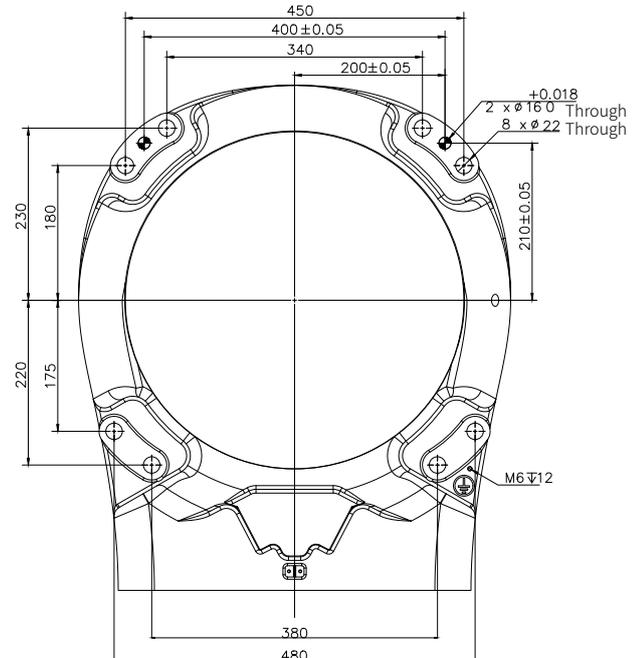
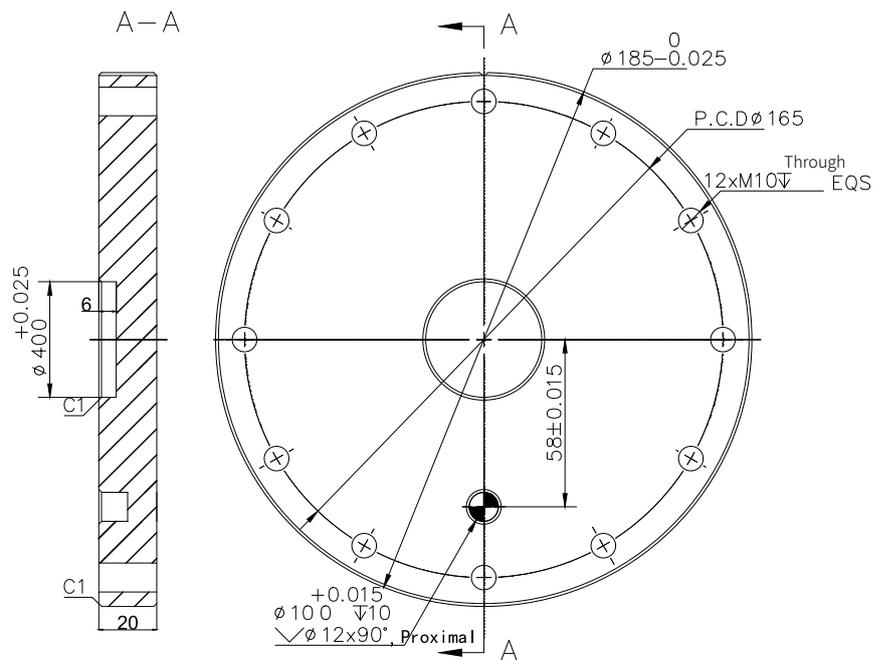
Repeatability



Moving range

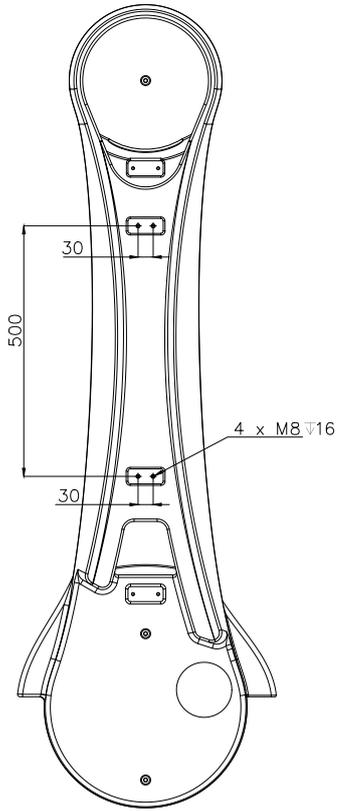


A-A

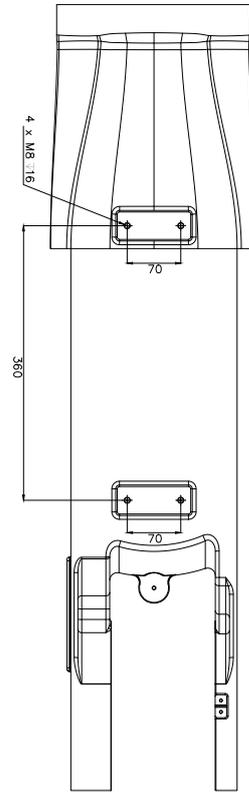


End flange installation dimensions

Base installation dimensions



J3 arm installation dimensions ◀



J5 wrist installation dimensions ◀



Number of axis	6-axis		Maximum speed	Moving range
Motion radius	2700mm	J1 axis S	115°/s	±180°
Power capacity	25.0KVA	J2 axis L	95°/s	+60°~-80°
Max Payload	220KG	J3 axis U	115°/s	+157.5°~-80°
Protection class	IP54/IP67	J4 axis R	170°/s	±190°
Repeatability	±0.06mm	J5 axis B	145°/s	±125°
Robot mass	1060KG	J6 axis T	210°/s	±360°
Built-in air tube	Φ10	J4 axis R(N.m)		1045
Input/Output signals	Standard 16 in/16 out 24 VDC	J5 axis B(N.m)		1045
Mounting position	Floor	J6 axis T(N.m)		858



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)
Rough quality	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); support external axis expansion
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.

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 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: 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

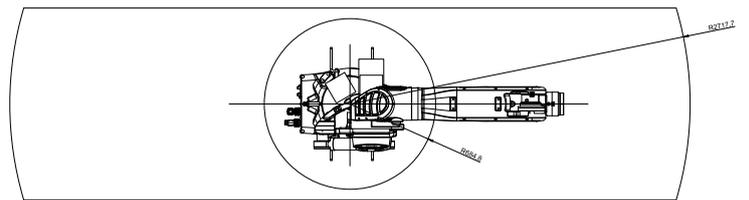
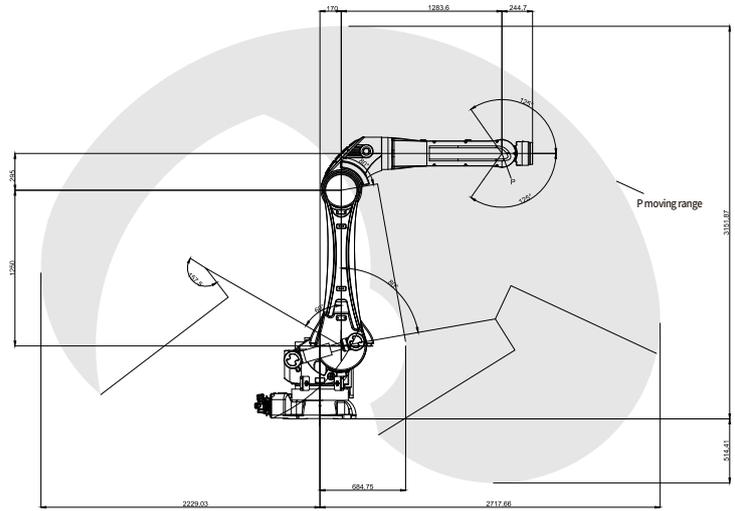
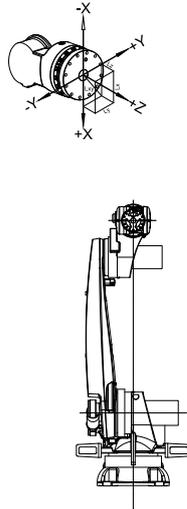
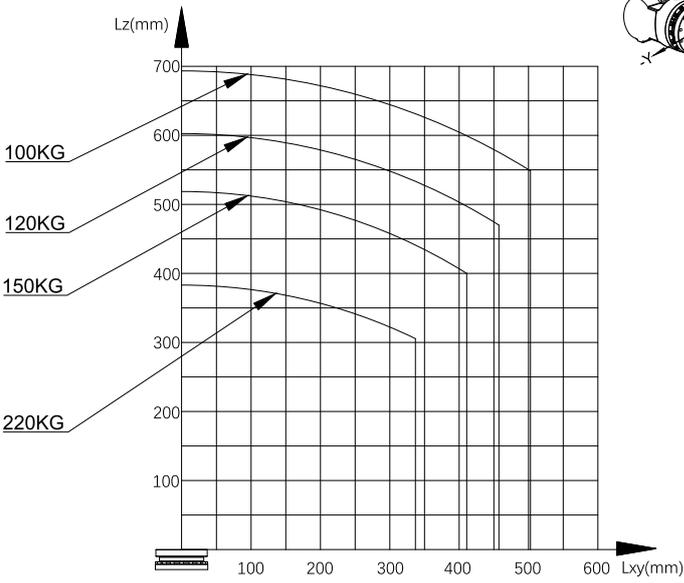
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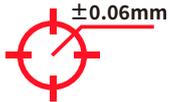
Robot payload diagram

External dimensions and moving range

P moving range



220KG
Max payload

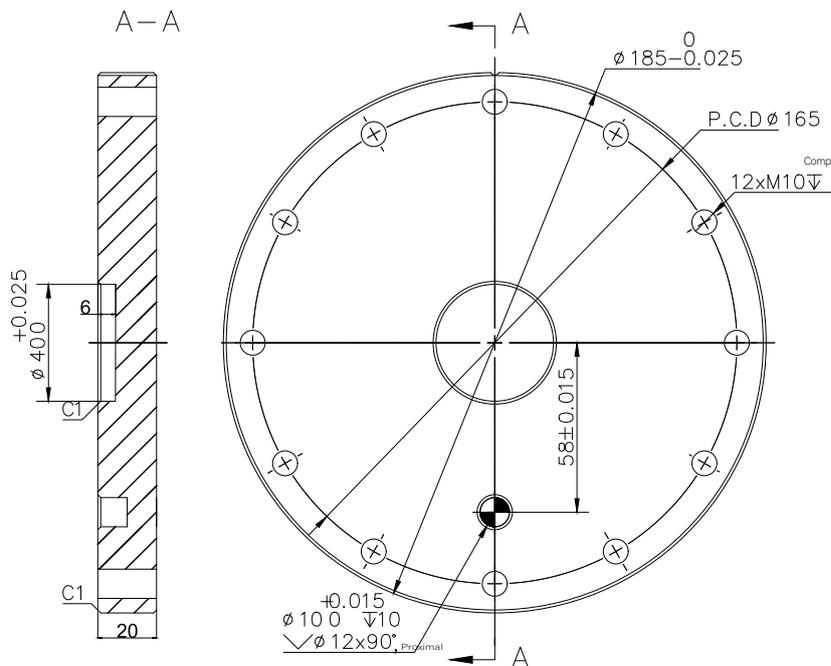


$\pm 0.06\text{mm}$
Repeatability

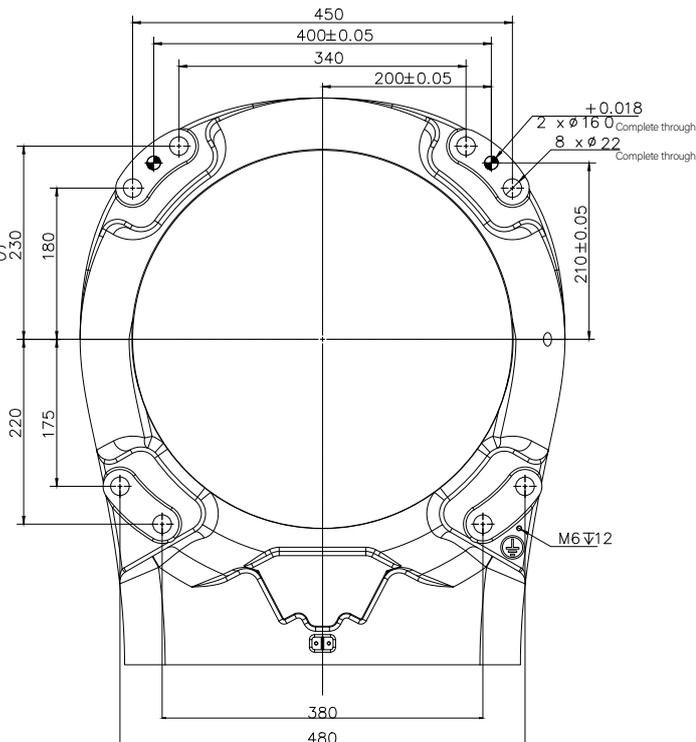


2700mm
Moving range

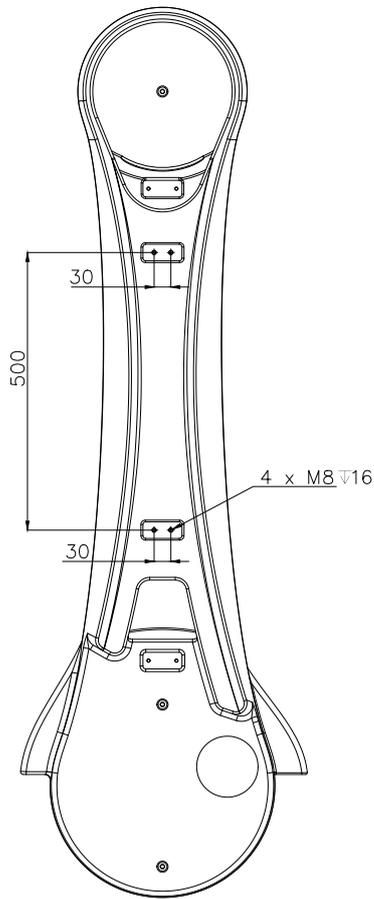
A-A



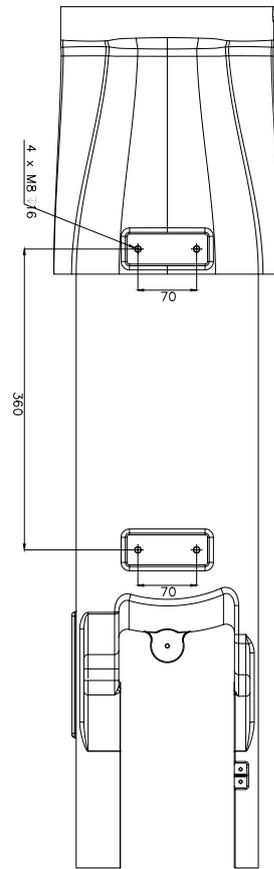
End flange installation dimensions



Base installation dimensions



J3 arm installation dimensions ◀



J5 wrist installation dimensions ◀

MB280-2650**PAYLOAD : 280KG****REPEATABILITY : ±0.06mm**

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	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)		752

MADE BY MOKAROBOT



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)
Rough quality	170KG
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);support external axis expansion
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.

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:15m

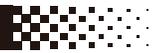
Manipulator

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



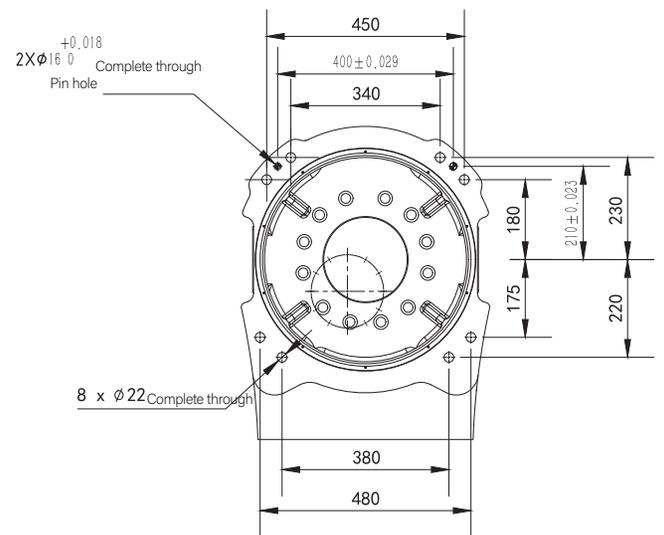
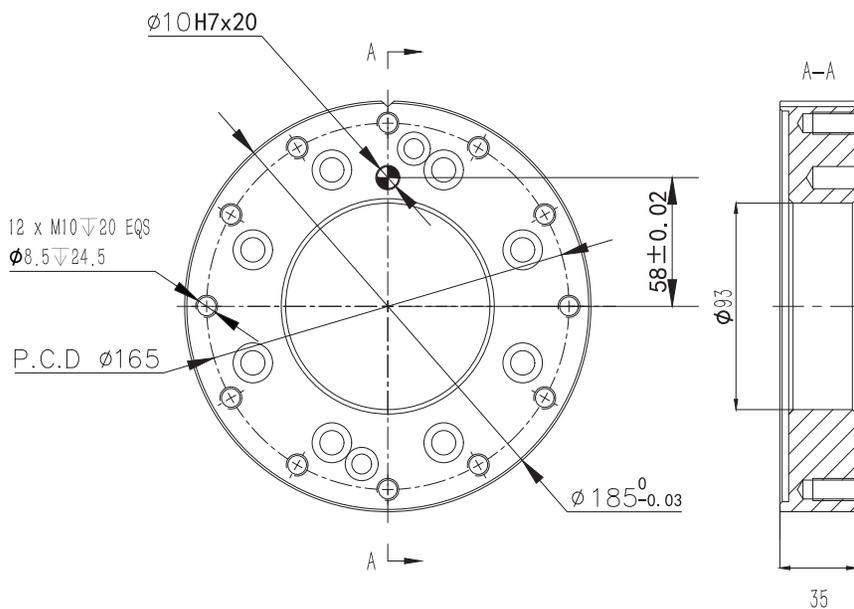
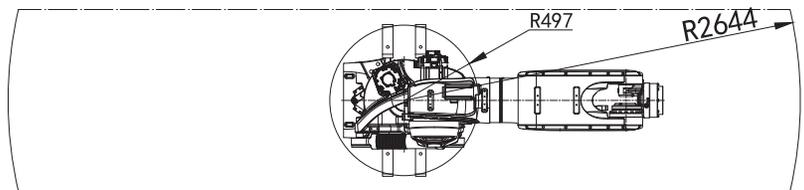
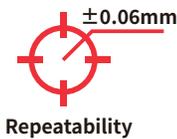
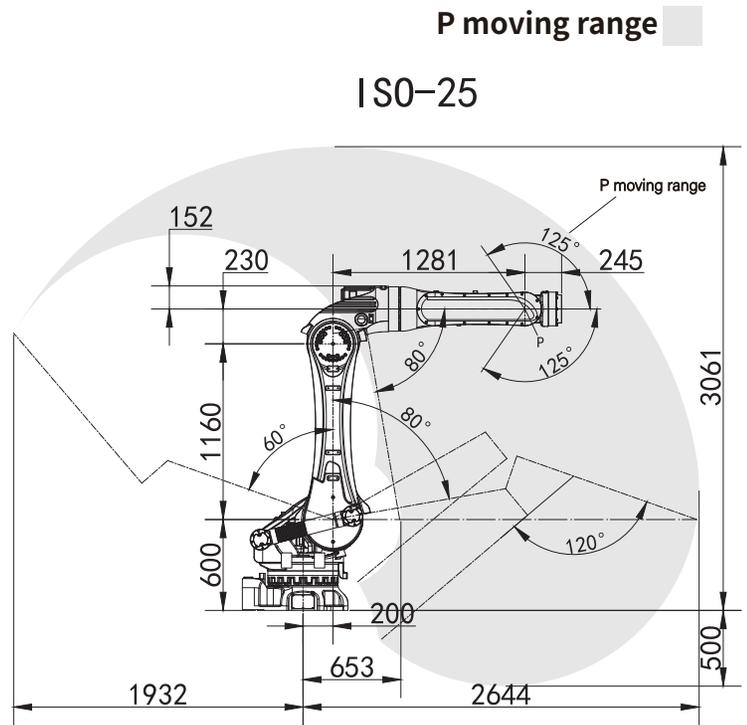
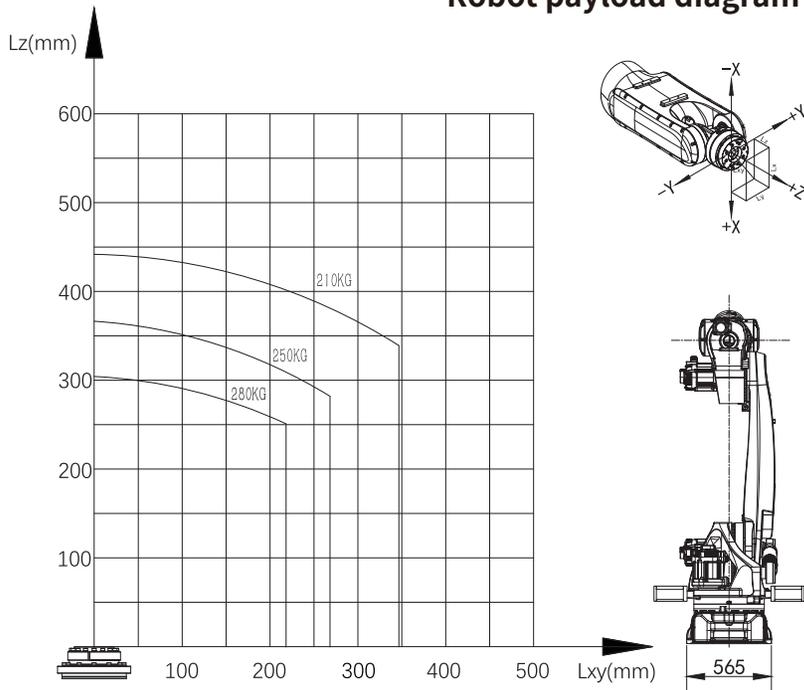
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Robot payload diagram

External dimensions and moving range

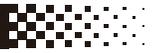


End flange installation dimensions

Base installation dimensions



Number of axis	6-axis	Maximum speed	Moving range
Motion radius	2655mm	J1 axis S	$\pm 182.5^\circ$
Max Payload	360KG	J2 axis L	$-70^\circ \sim +71^\circ$
Protection class	IP54/IP65	J3 axis U	$-66.5^\circ \sim +64.5^\circ$
Repeatability	$\pm 0.1\text{mm}$	J4 axis R	$\pm 360^\circ$
Robot mass	1600KG	J5 axis B	$\pm 120^\circ$
Mounting position	Floor	J6 axis T	$\pm 360^\circ$
		J4 axis R(N.m)	1960
		J5 axis B(N.m)	1960
		J6 axis T(N.m)	1050



Installation Environment

Temperature	0-45°C	Humidity	20-85%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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Number of axis	4-axis		Maximum speed	Moving range
Motion radius	300mm	J1 axis S	J1+J2 5950mm/s	±120°
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

TECHNICAL SPECIFICATION
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	386(width)*445(depth)*225(height)mm (with no protrusions)
Approximate mass	19KG
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 (4-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

Serial port I/F

RS232/RS422/RS485 (1PC) RS232 (1PC) RJ45 (3PC)

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 5m. Optional: 15m

Manipulator

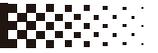
Selector, axis operation, value, mode selection with key (teach mode/auto mode/remote mode), emergency stop, enable, USB port etc


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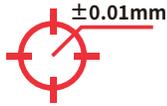


SPECIFICATIONS

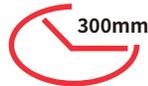
TECHNICAL SPECIFICATION



Max payload



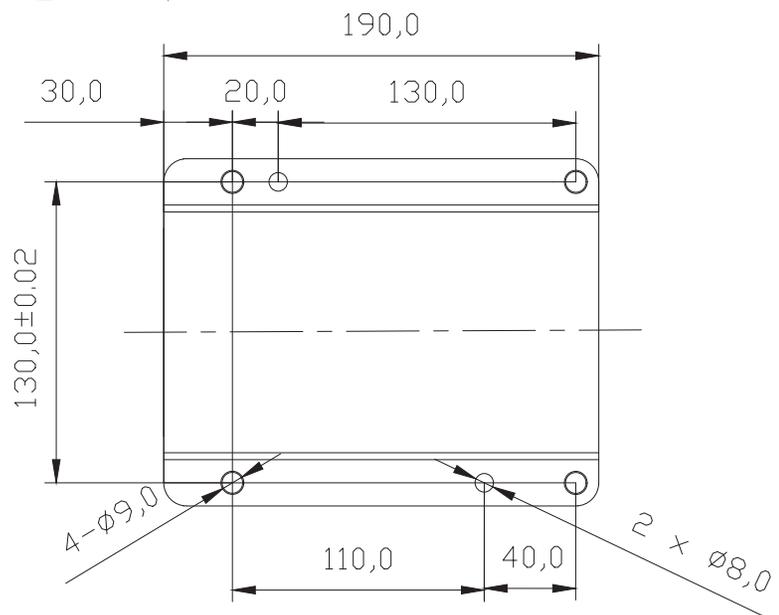
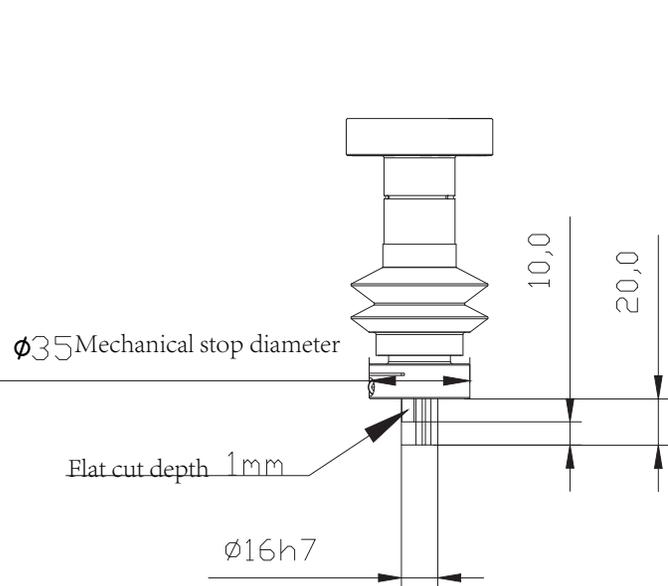
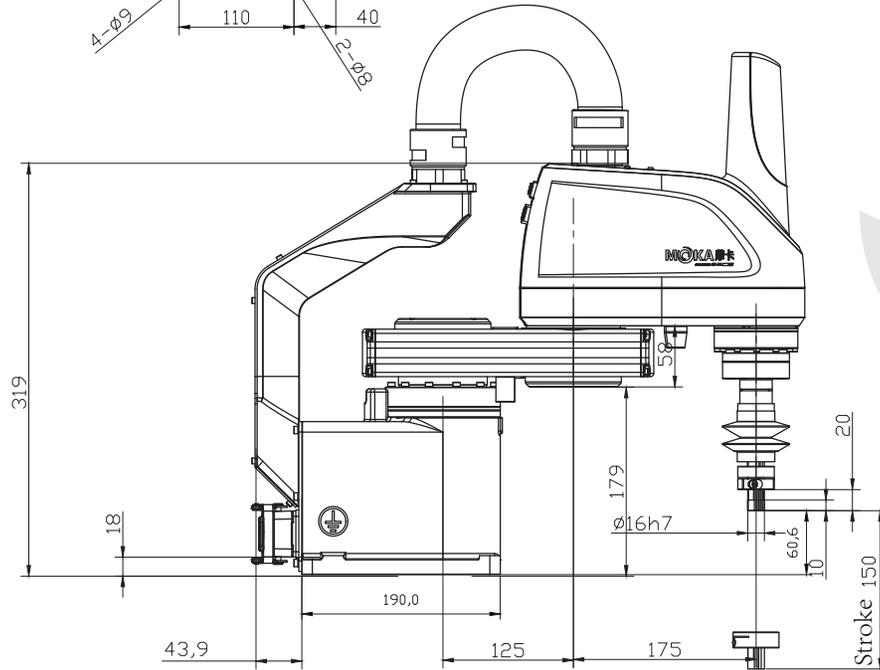
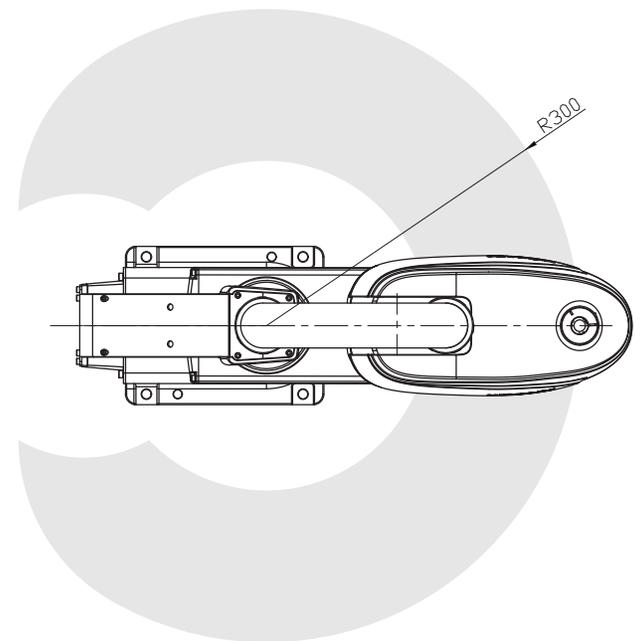
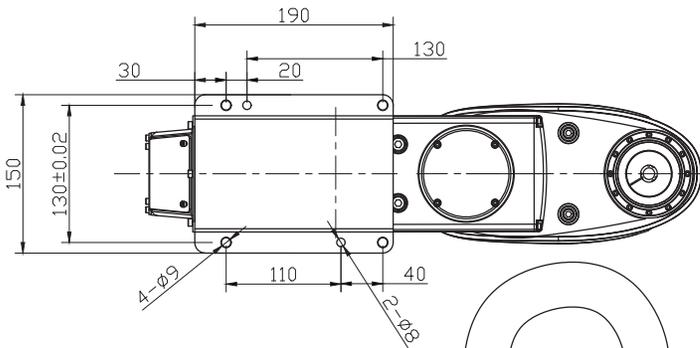
Repeatability



Moving range

External dimensions and moving range

P moving range



End flange installation dimensions

Base installation dimensions



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	386(width)*445(depth)*225(height)mm (with no protrusions)
Approximate mass	19KG
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 (4-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

Serial port I/F

RS232/RS422/RS485 (1PC) RS232 (1PC) RJ45 (3PC)

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

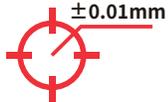
Selector, axis operation, value, mode selection with key (teach mode/auto mode/remote mode), emergency stop, enable, USB port etc



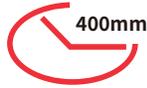
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4KG
Max payload



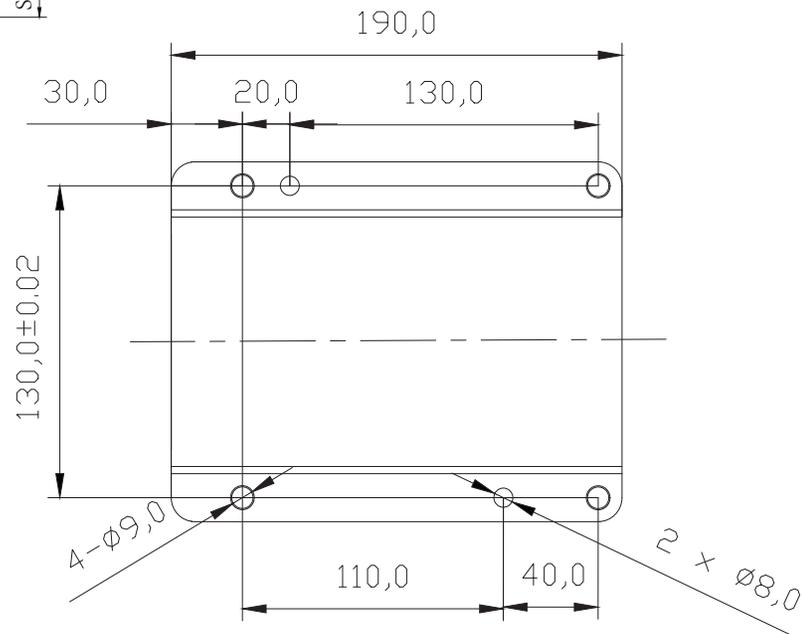
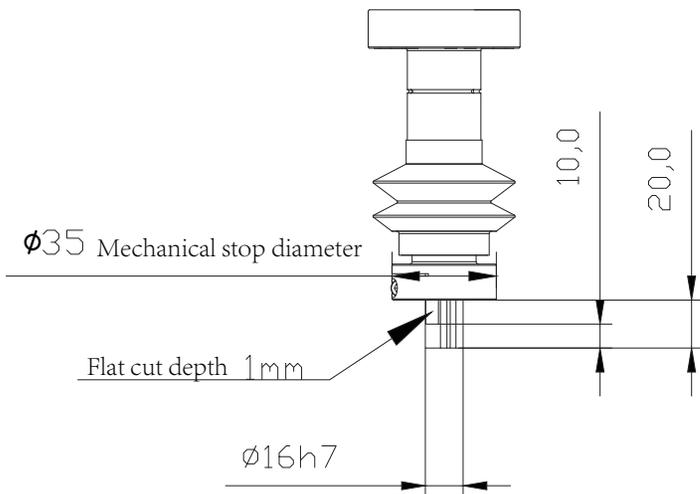
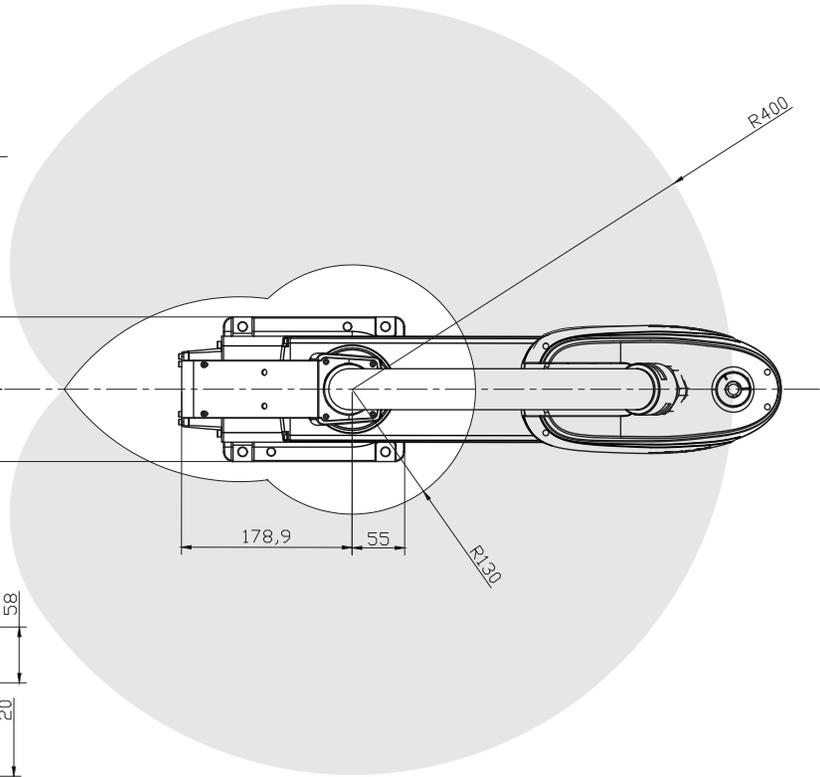
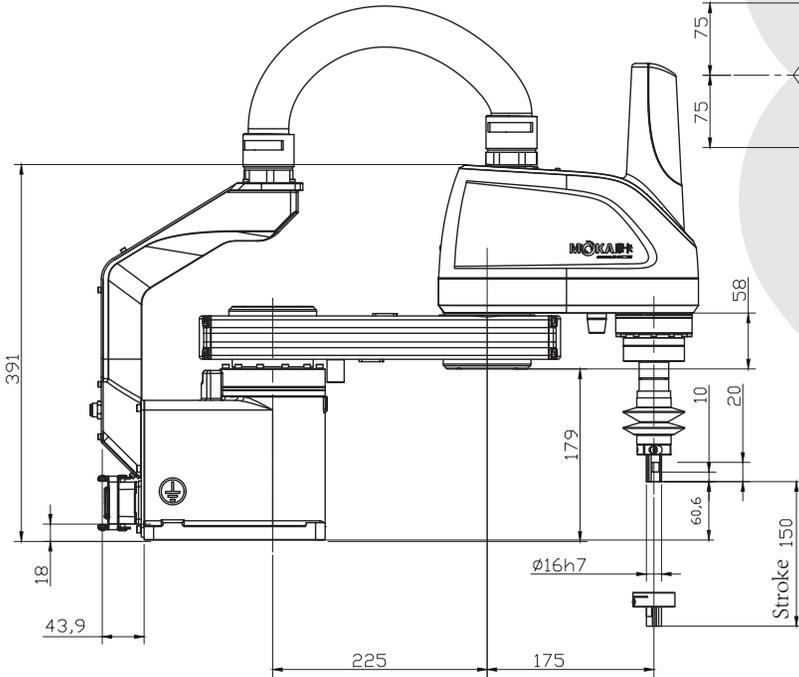
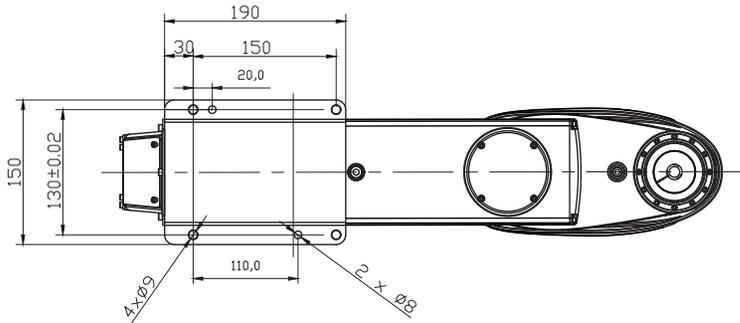
$\pm 0.01\text{mm}$
Repeatability



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	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

TECHNICAL SPECIFICATION
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	386(width)*445(depth)*225(height)mm (with no protrusions)
Approximate mass	19KG
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 (4-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

Serial port I/F

RS232/RS422/RS485 (1PC) RS232 (1PC) RJ45 (3PC)

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

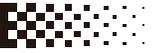
External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED, 640*480 pixels
Protection class	IP54
Cable Length	Standard 5m. Optional: 15m

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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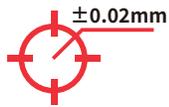


SPECIFICATIONS

TECHNICAL SPECIFICATION



Max payload



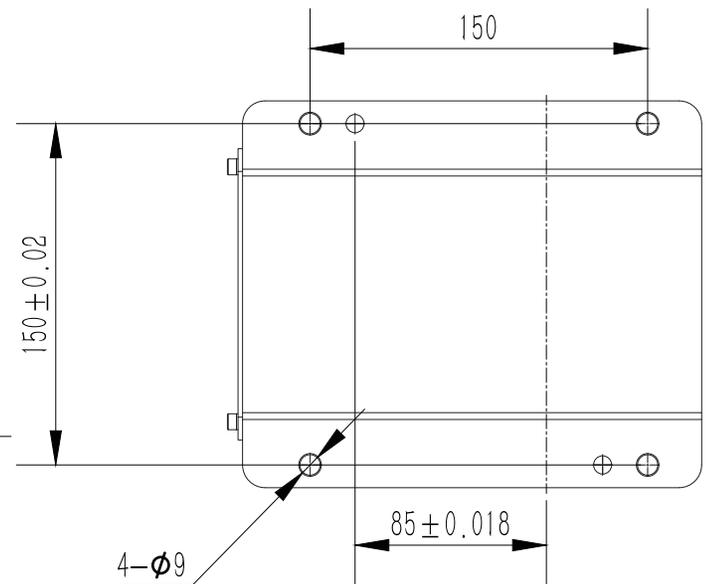
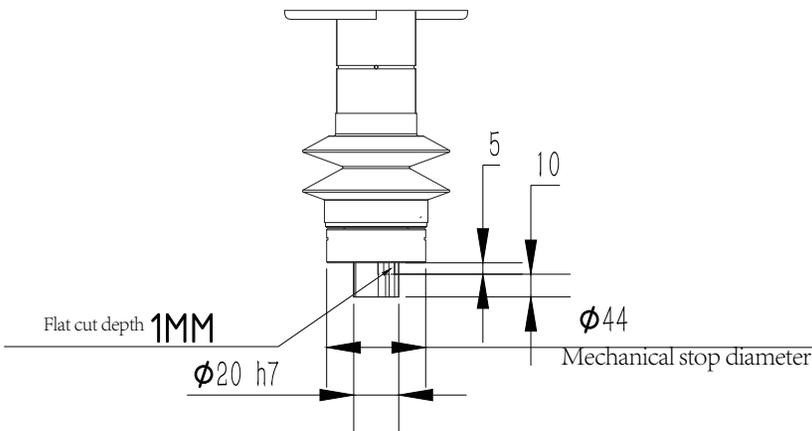
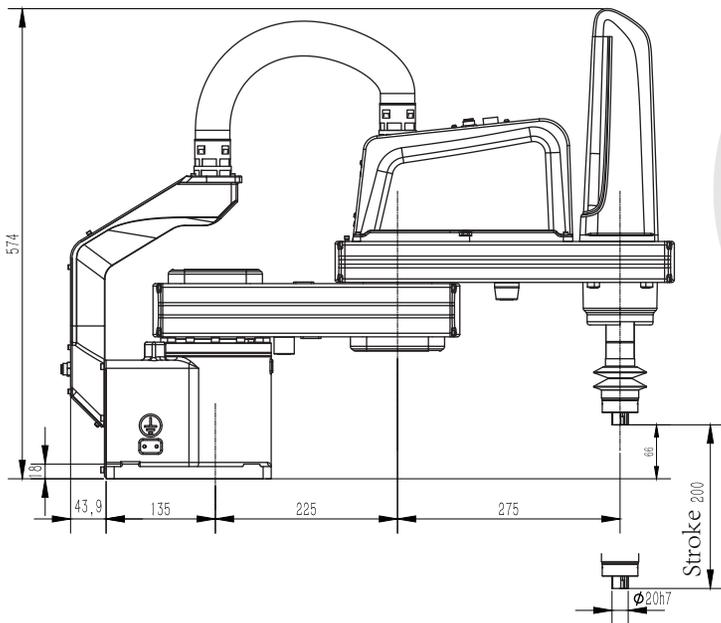
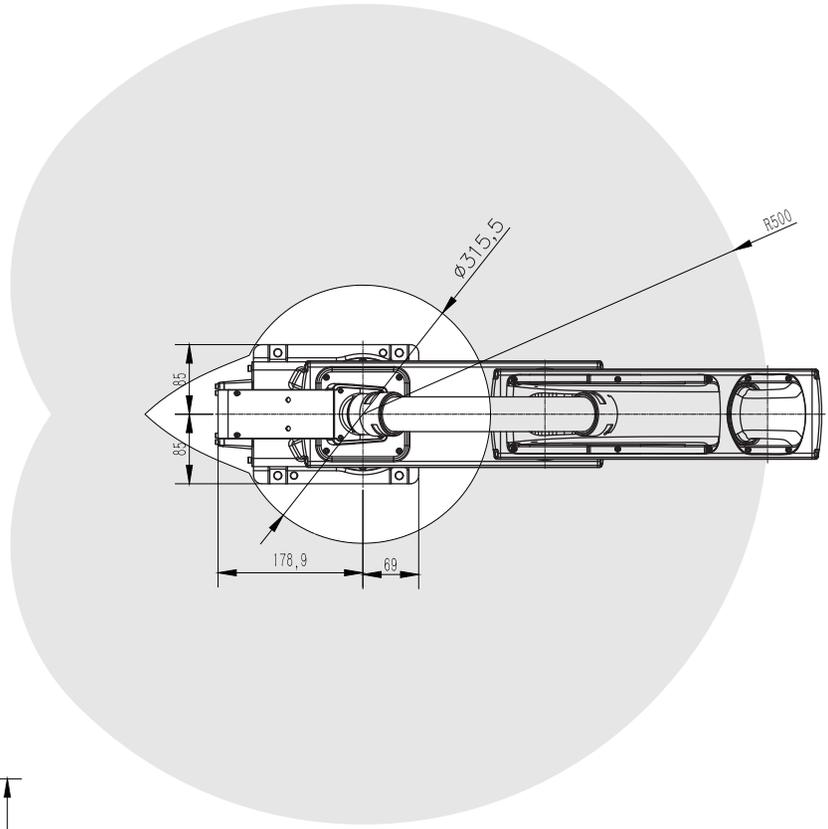
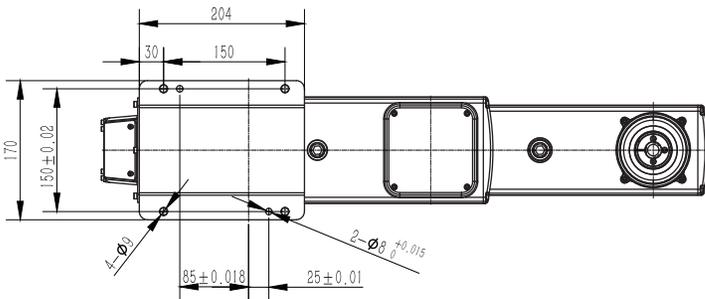
Repeatability



Moving range

External dimensions and moving range

P moving range



End flange installation dimensions

Base installation dimensions



Number of axis	4-axis		Maximum speed	Moving range
Motion radius	600mm	J1 axis S	J1+J2 8100mm/s	±135°
Power capacity	2.0KVA	J2 axis L		±150°
Max payload	Rated 5KG/Max 10KG	J3 axis U	1100mm/s	200mm
Repeatability	±0.02mm	J4 axis R	880°/s	±360°
Robot mass	28KG	Input/Output signals		Standard 16 in/16 out 24 VDC
Built-in air tube	Φ6	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	386(width)*445(depth)*225(height)mm (with no protrusions)
Approximate mass	19KG
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 (4-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

Serial port I/F

RS232/RS422/RS485 (1PC) RS232 (1PC) RJ45 (3PC)

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 5m. Optional: 15m

Manipulator

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

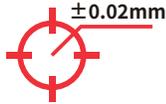


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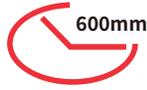
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10KG
Max payload



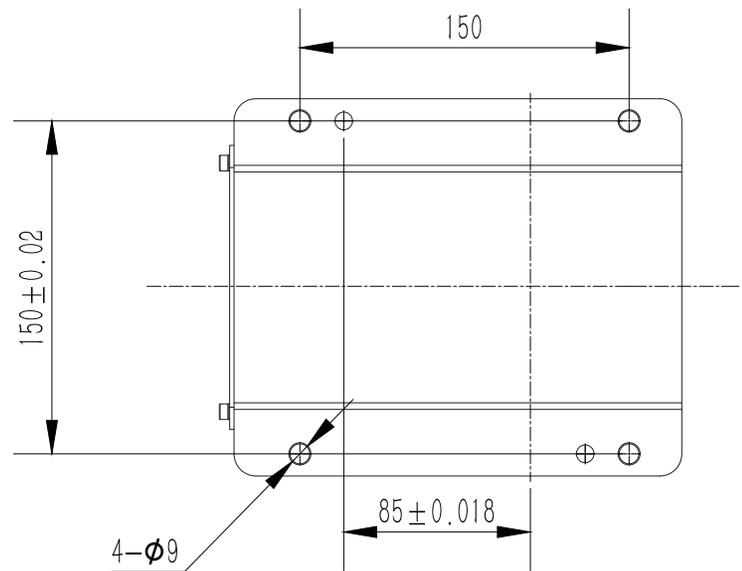
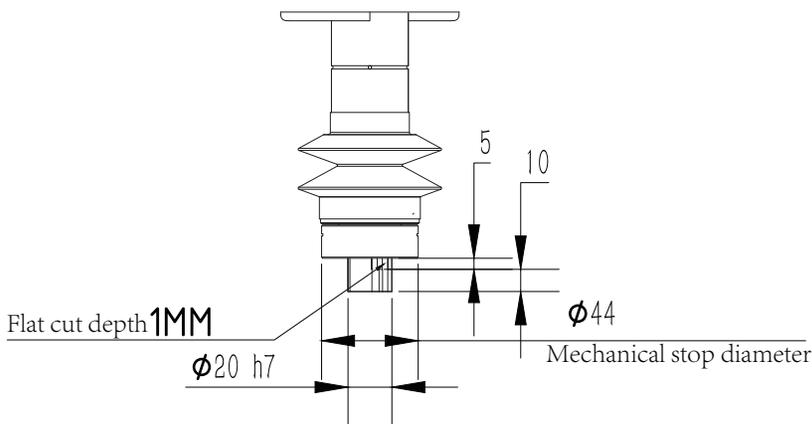
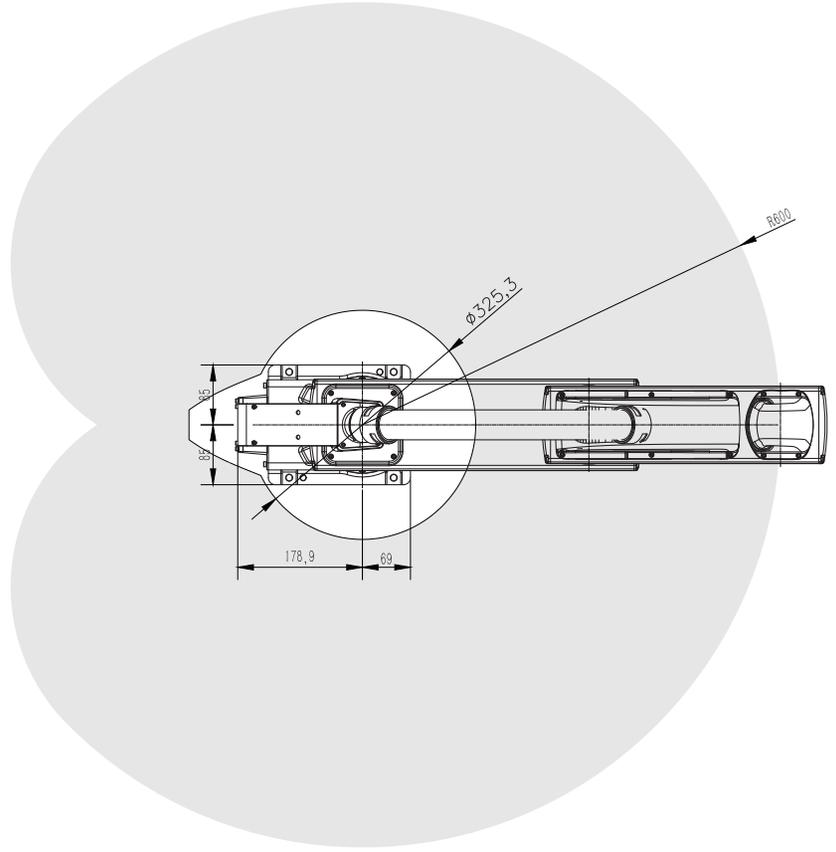
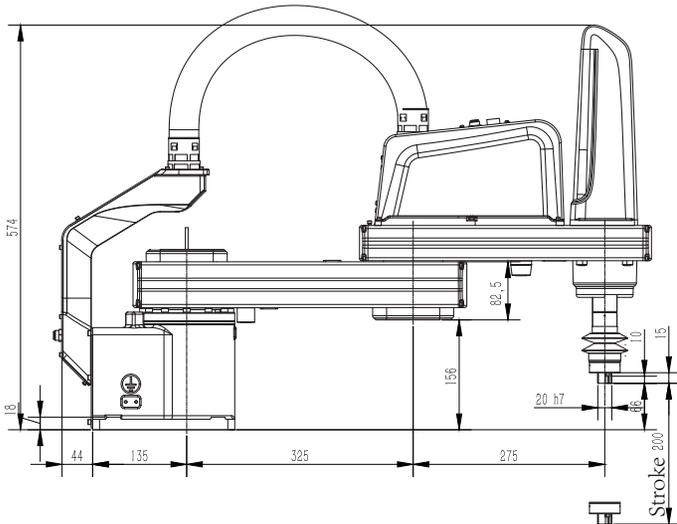
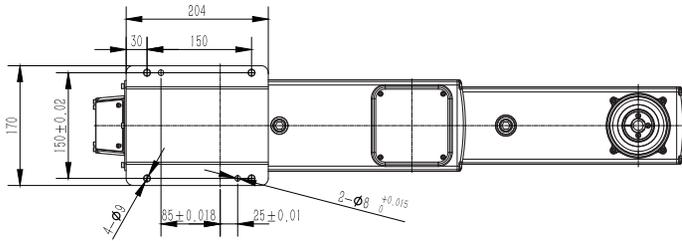
$\pm 0.02\text{mm}$
Repeatability



600mm
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 9580mm/s	$\pm 135^\circ$
Power capacity	2.0KVA	J2 axis L		$\pm 150^\circ$
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

TECHNICAL SPECIFICATION
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	386(width)*445(depth)*225(height)mm (with no protrusions)
Approximate mass	19KG
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 (4-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

Serial port I/F

RS232/RS422/RS485 (1PC) RS232 (1PC) RJ45 (3PC)

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

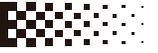
External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED, 640*480 pixels
Protection class	IP54
Cable Length	Standard 5m. Optional: 15m

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

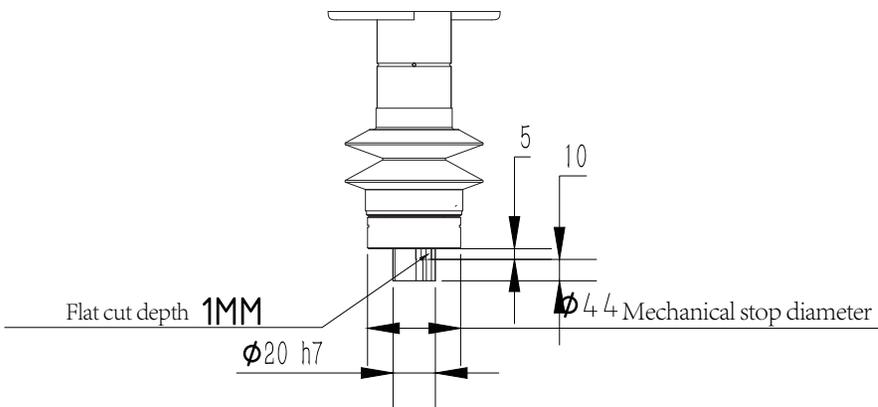
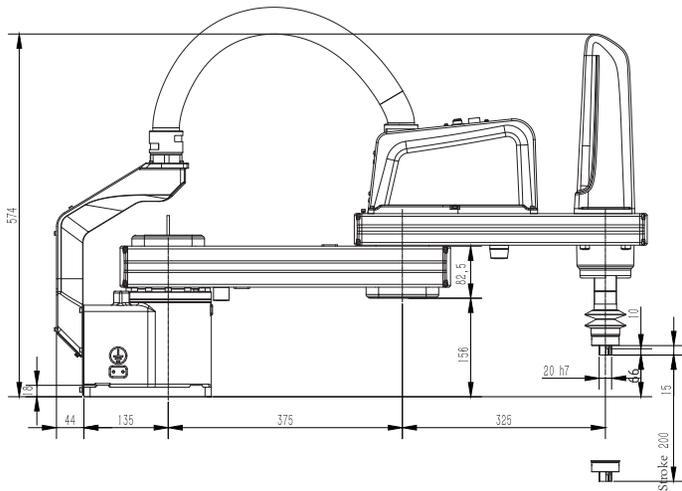
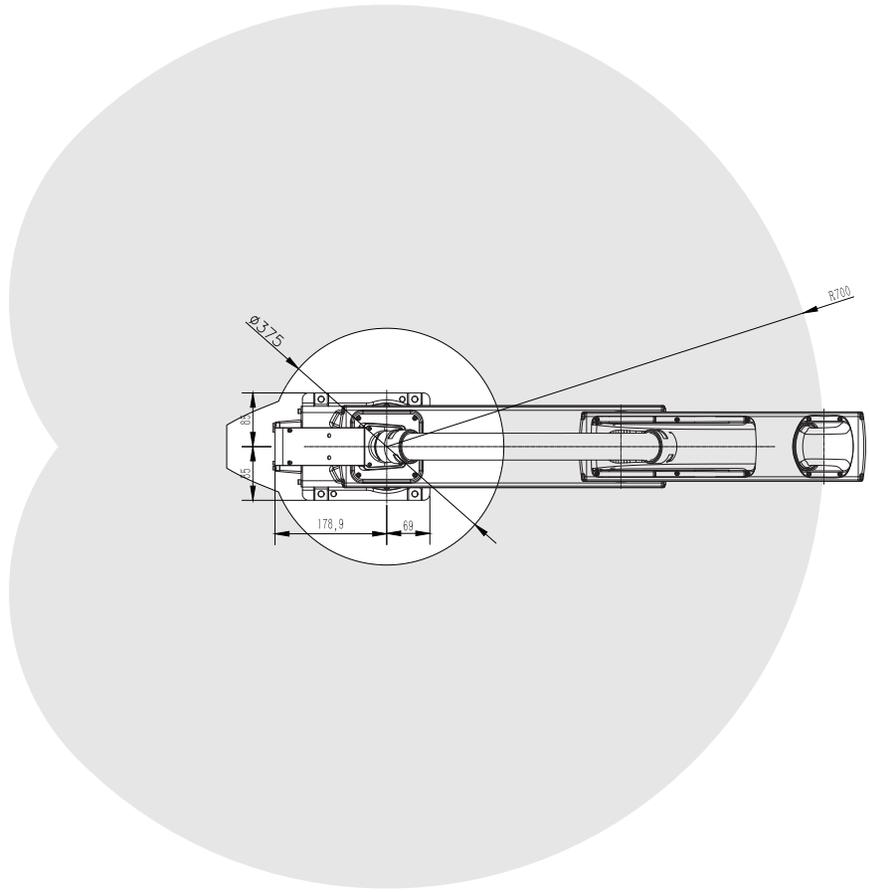
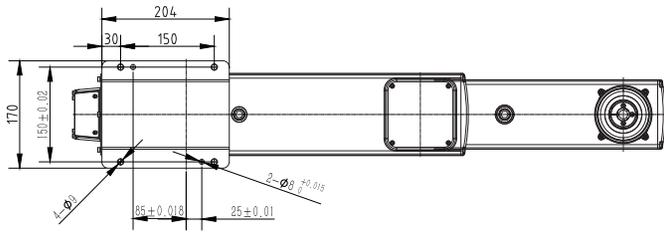
10KG
Max payload

$\pm 0.02\text{mm}$
Repeatability

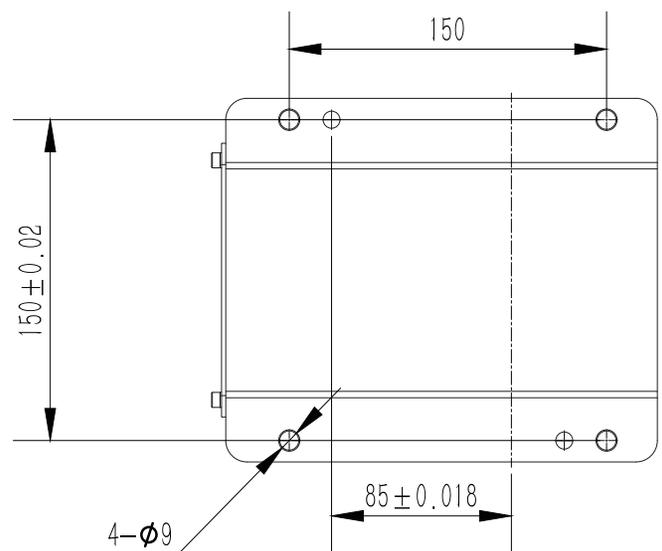
700mm
Moving range

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 10927.2mm/s	$\pm 135^\circ$
Power capacity	2.0KVA	J2 axis L		$\pm 150^\circ$
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	32KG	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	386(width)*445(depth)*225(height)mm (with no protrusions)
Approximate mass	19KG
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 (4-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

Serial port I/F

RS232/RS422/RS485 (1PC) RS232 (1PC) RJ45 (3PC)

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

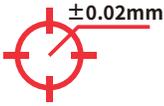
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Max payload



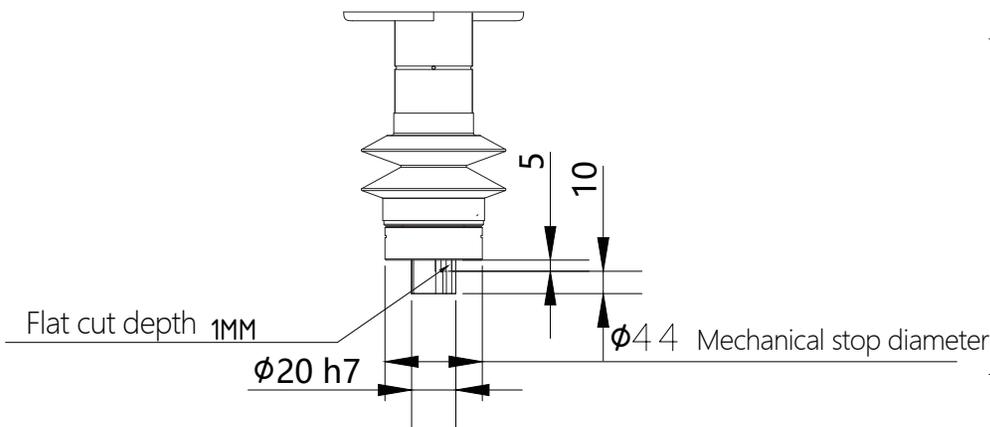
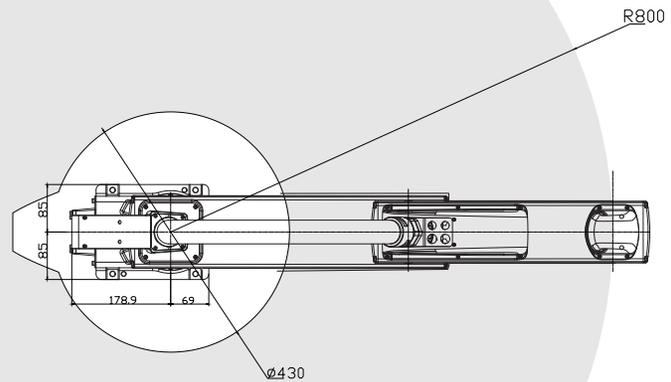
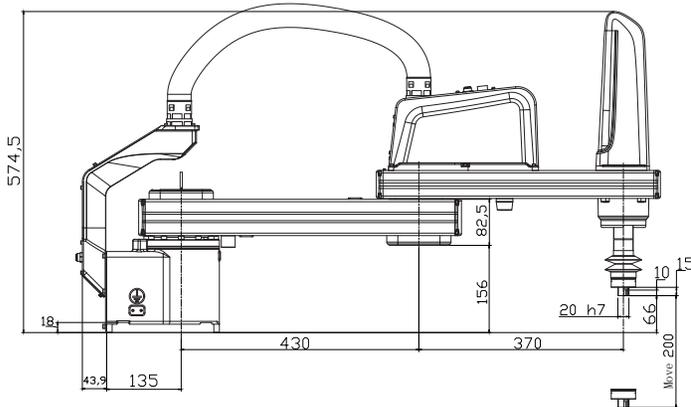
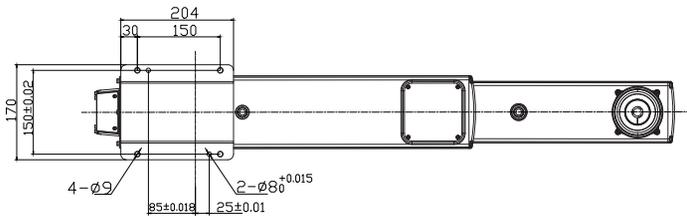
Repeatability



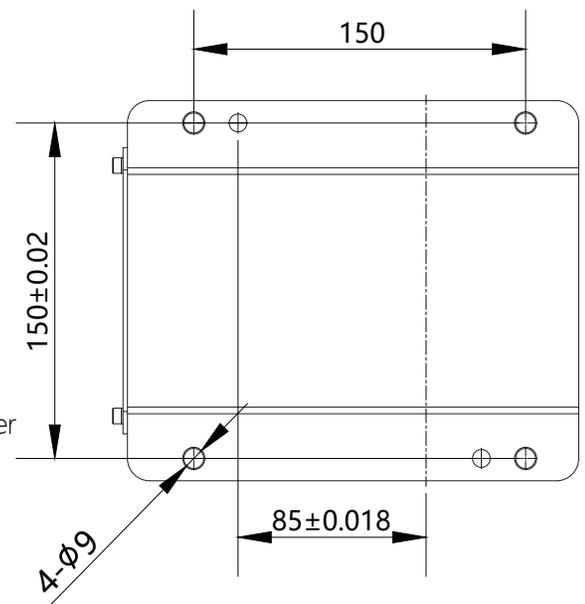
Moving range

External dimensions and moving range ◀

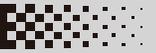
P moving range ◀



End flange installation dimensions ◀



Base installation dimensions ◀



Number of axis	4-axis		Maximum speed	Moving range
Motion radius	800mm	J1 axis S	J1+J2 9210mm/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	63KG	Input/Output signals		Standard 16 in/16 out 24 VDC
Built-in air tube	Φ8	Mounting position		Floor

TECHNICAL SPECIFICATION
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	386(width)*445(depth)*225(height)mm (with no protrusions)
Approximate mass	19KG
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 (4-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

Serial port I/F

RS232/RS422/RS485 (1PC) RS232 (1PC) RJ45 (3PC)

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

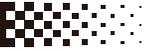
External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED, 640*480 pixels
Protection class	IP54
Cable Length	Standard 5m. Optional: 15m

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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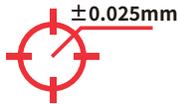
SPECIFICATIONS

TECHNICAL SPECIFICATION



25KG

Max payload



Repeatability

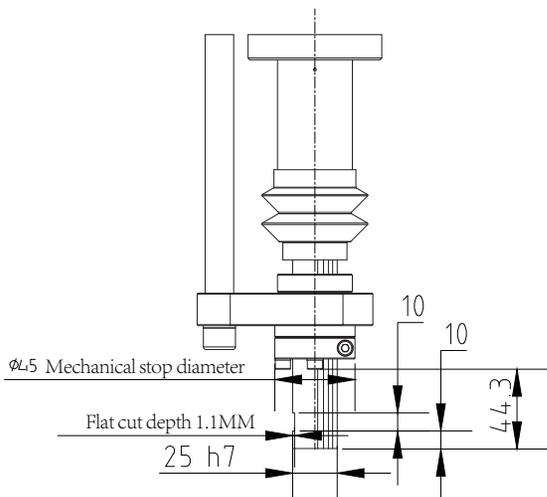
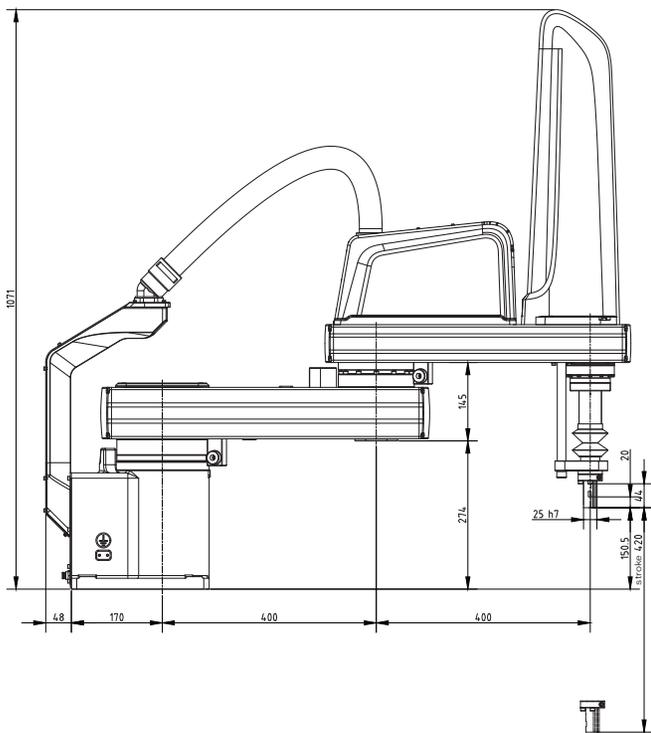
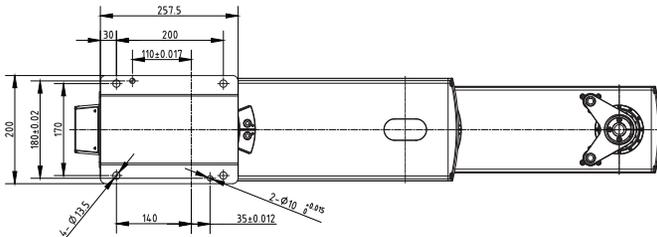


800mm

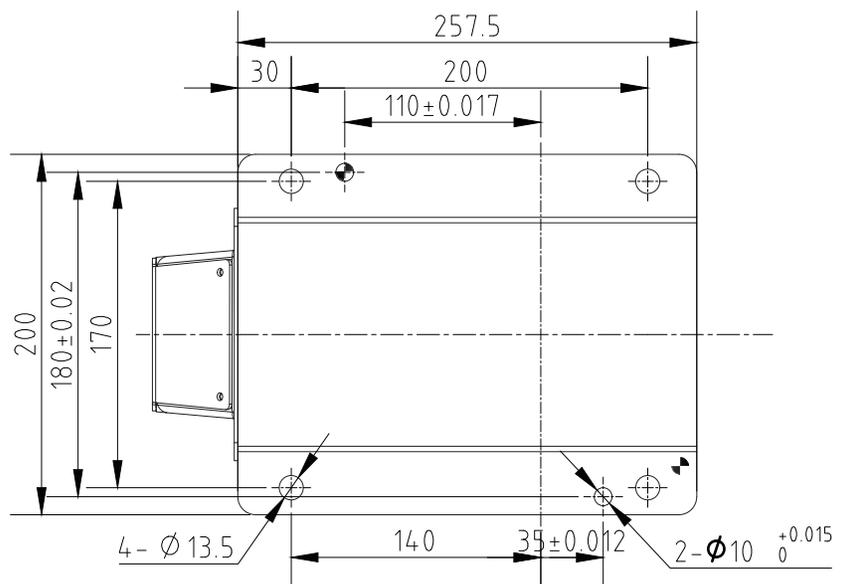
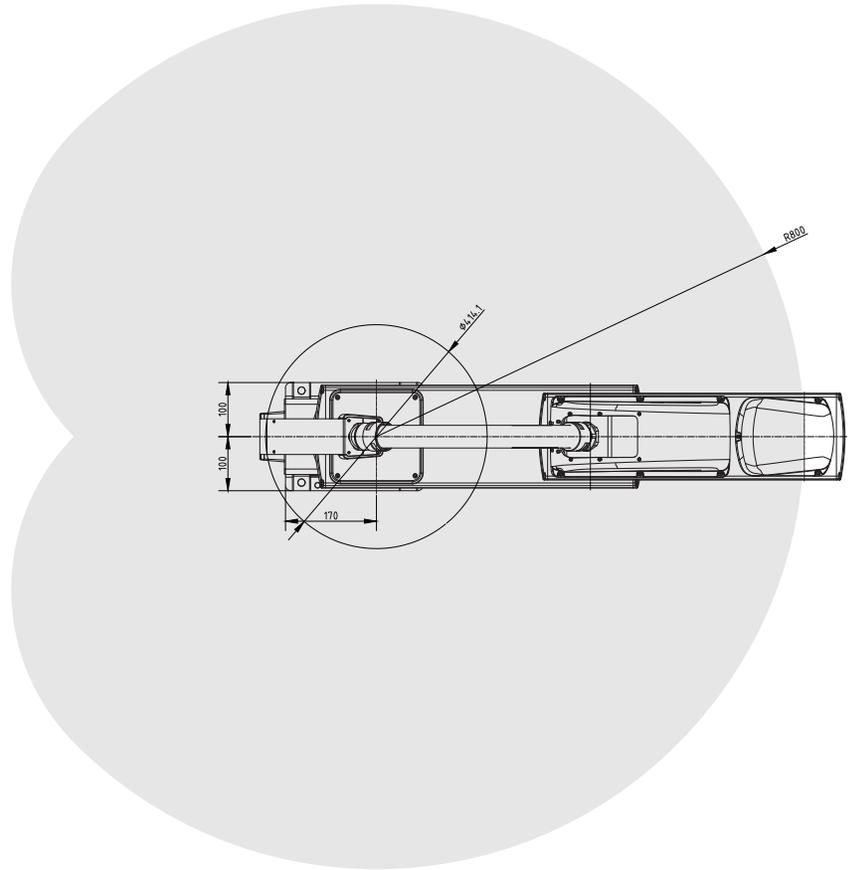
Moving range

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	$\pm 135^\circ$
Power capacity	3.0KVA	J2 axis L	10360mm/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	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	386(width)*445(depth)*225(height)mm (with no protrusions)
Approximate mass	19KG
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 (4-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

Serial port I/F

RS232/RS422/RS485 (1PC) RS232 (1PC) RJ45 (3PC)

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 5m. Optional: 15m

Manipulator

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

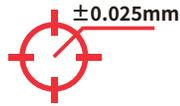


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Max payload



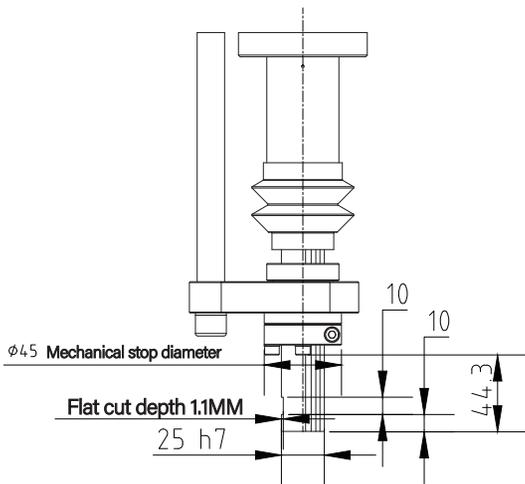
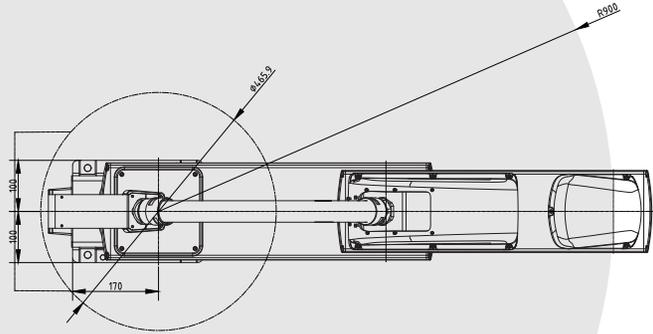
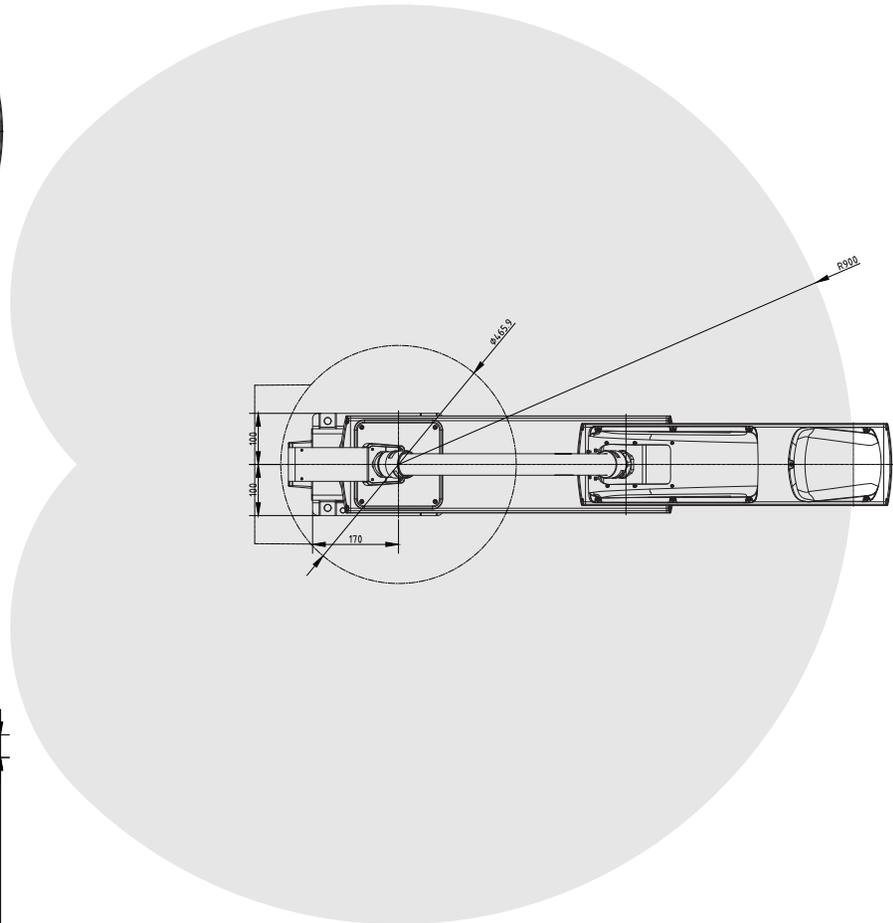
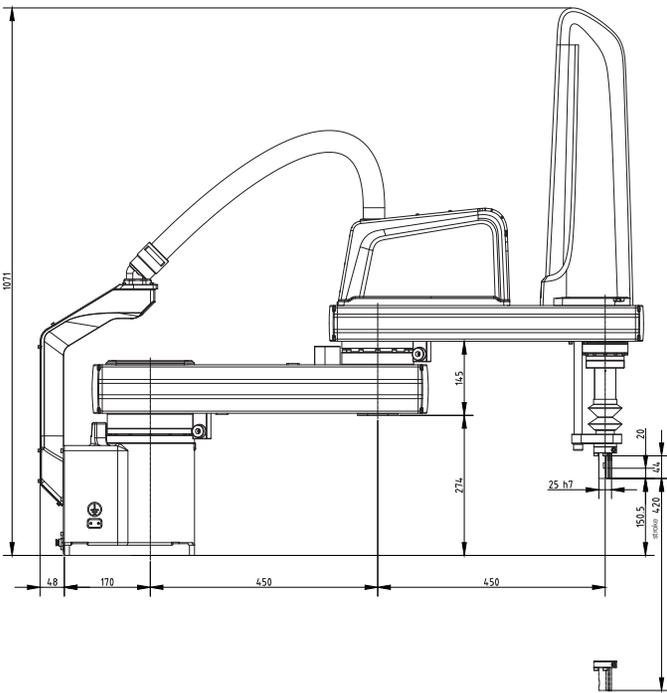
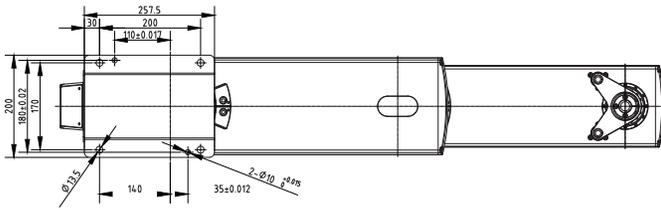
Repeatability



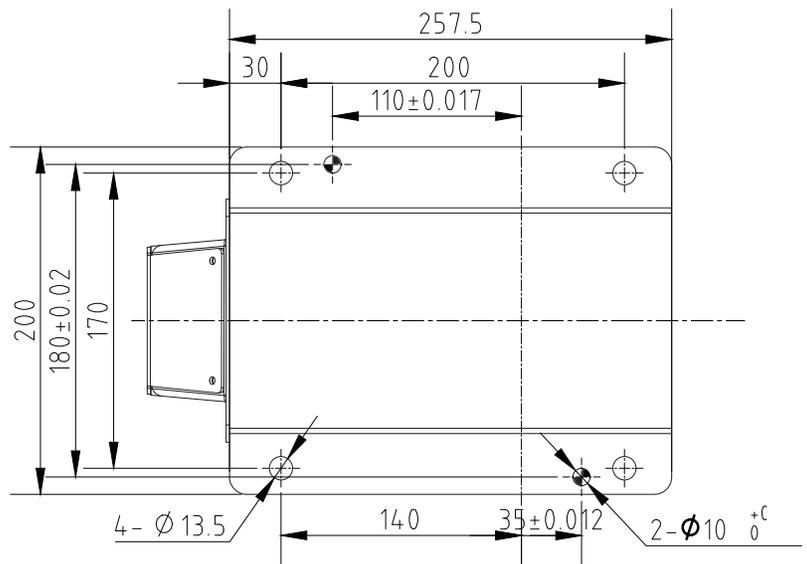
Moving range

External dimensions and moving range

P moving range



End flange installation dimensions



Base installation dimensions

MB25SC-1000

PAYLOAD : 10-25KG REPEATABILITY : $\pm 0.025\text{mm}$

MOKA



Number of axis	4-axis		Maximum speed	Moving range
Motion radius	1000mm	J1 axis S	J1+J2 11520mm/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°/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

MADE BY MOKAROBOT

TECHNICAL SPECIFICATION
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	386(width)*445(depth)*225(height)mm (with no protrusions)
Approximate mass	19KG
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 (4-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

Serial port I/F

RS232/RS422/RS485 (1PC) RS232 (1PC) RJ45 (3PC)

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

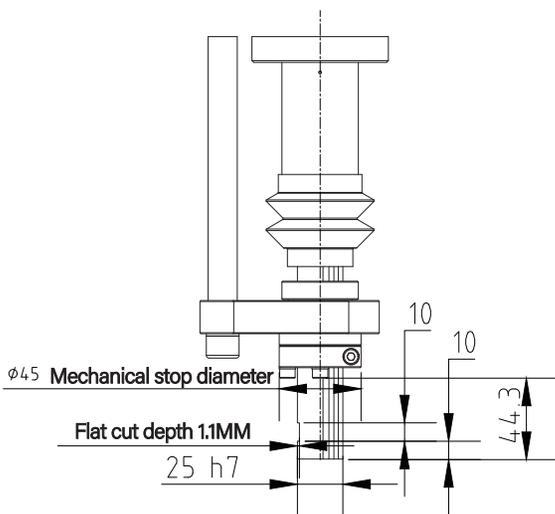
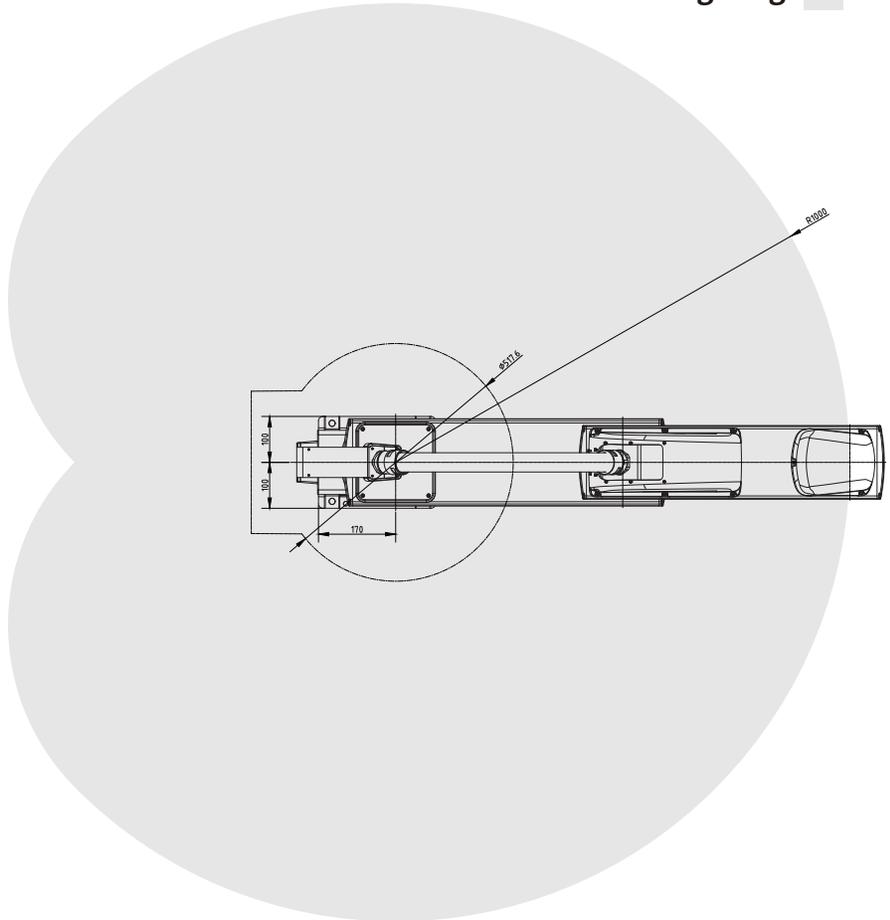
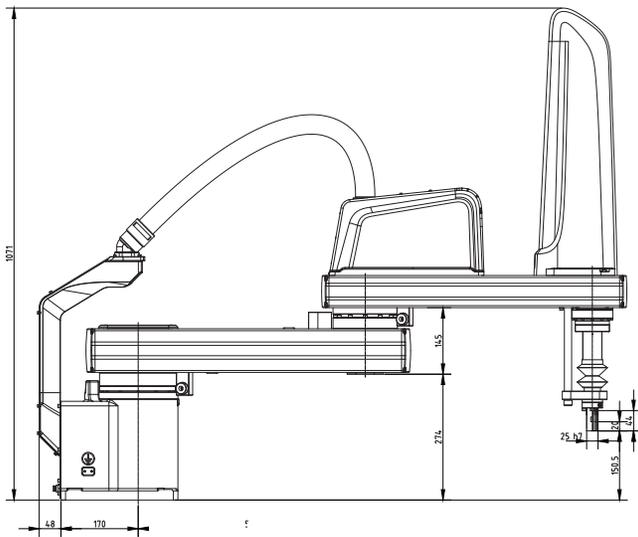
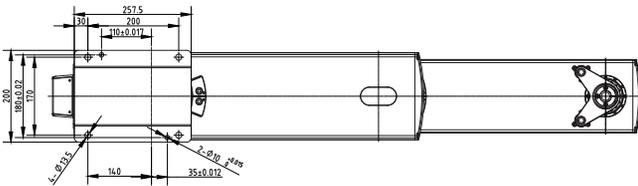
25KG
Max payload

$\pm 0.025\text{mm}$
Repeatability

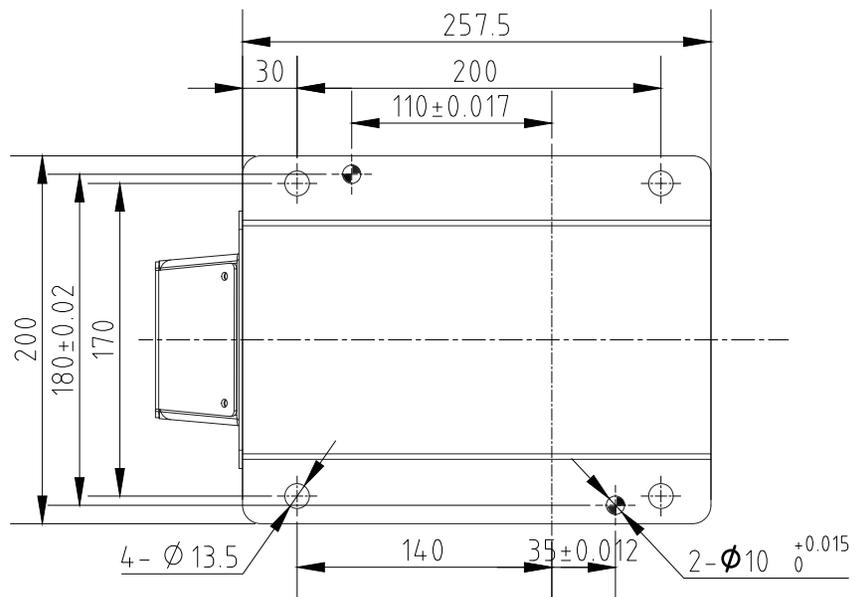
1000mm
Moving range

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	740mm	J1 axis S	300°/s	$\pm 170^\circ$
Power capacity	3.0KVA	J2 axis L	300°/s	$-140^\circ \sim +70^\circ$
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	$\pm 130^\circ$
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	386(width)*445(depth)*225(height)mm (with no protrusions)
Approximate mass	20KG
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); support external axis expansion
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

Serial port I/F

RS232/RS422/RS485 (1PC) RS232 (1PC) RJ45 (3PC)

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

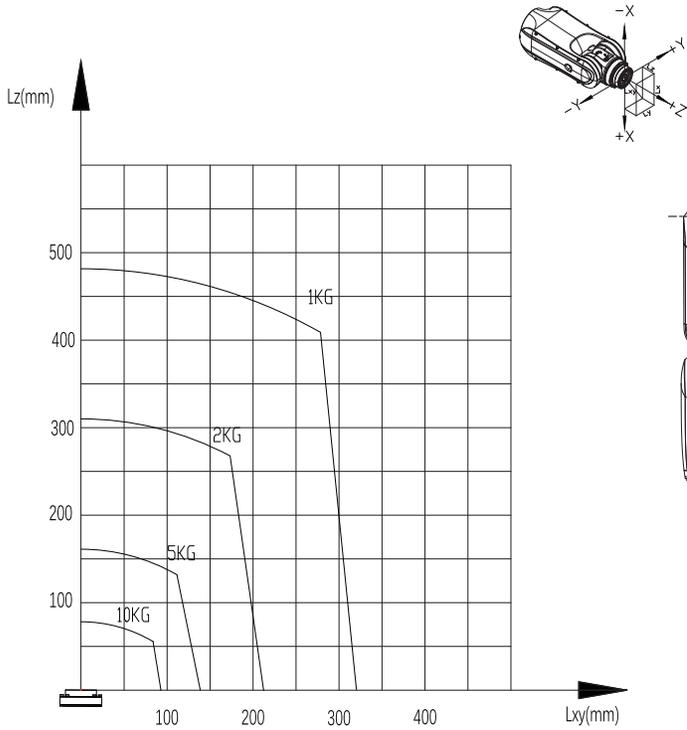
Manipulator

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



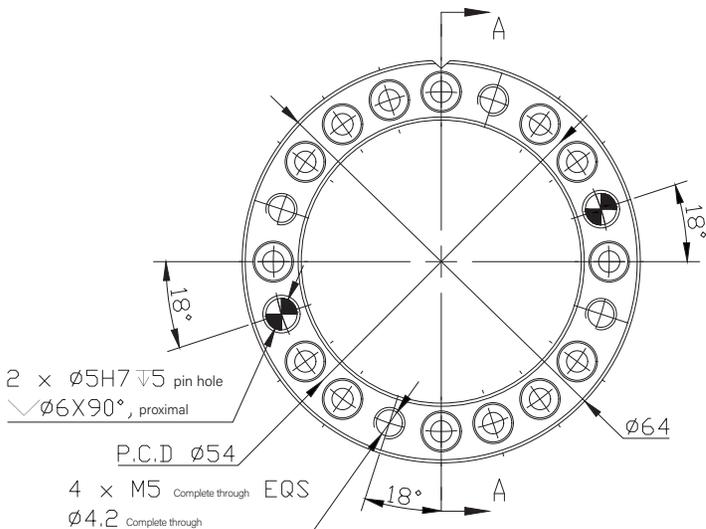
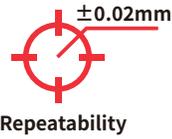
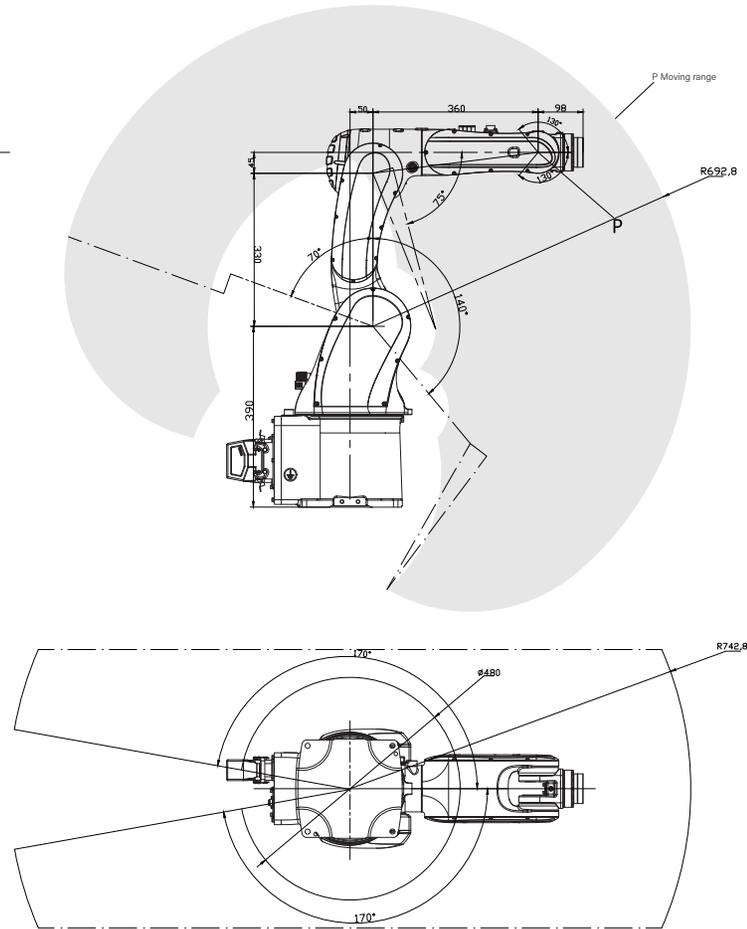
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Robot payload diagram

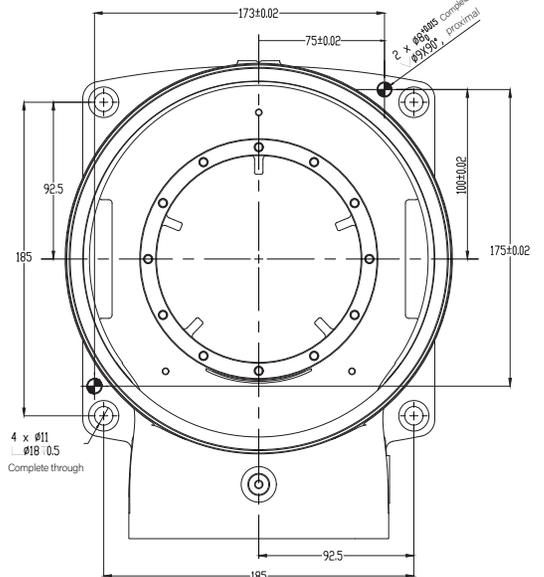


External dimensions and moving range

P moving range



End flange installation dimensions



Base installation dimensions

MB08S-1000

PAYLOAD : 8KG

REPEATABILITY : $\pm 0.02\text{mm}$

MOKA



Number of axis	6-axis		Maximum speed	Moving range
Motion radius	1002mm	J1 axis S	300°/s	$\pm 170^\circ$
Power capacity	3.0KVA	J2 axis L	300°/s	$-140^\circ \sim +80^\circ$
Max Payload	8KG	J3 axis U	400°/s	$-75^\circ \sim +200^\circ$
Protection class	IP67	J4 axis R	550°/s	$\pm 190^\circ$
Repeatability	$\pm 0.02\text{mm}$	J5 axis B	560°/s	$\pm 130^\circ$
Robot mass	49KG	J6 axis T	975°/s	$\pm 360^\circ$
Built-in air tube	$\Phi 6$	J4 axis R(N.m)		18
Input/Output signals	Standard 16 in/16 out 24 VDC	J5 axis B(N.m)		18
Mounting position	Floor/frame/ceiling	J6 axis T(N.m)		9



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MADE BY MOKAROBOT



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	386(width)*445(depth)*225(height)mm (with no protrusions)
Approximate mass	20KG
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); support external axis expansion
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

Serial port I/F

RS232/RS422/RS485 (1PC) RS232 (1PC) RJ45 (3PC)

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



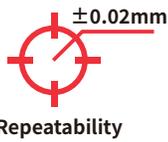
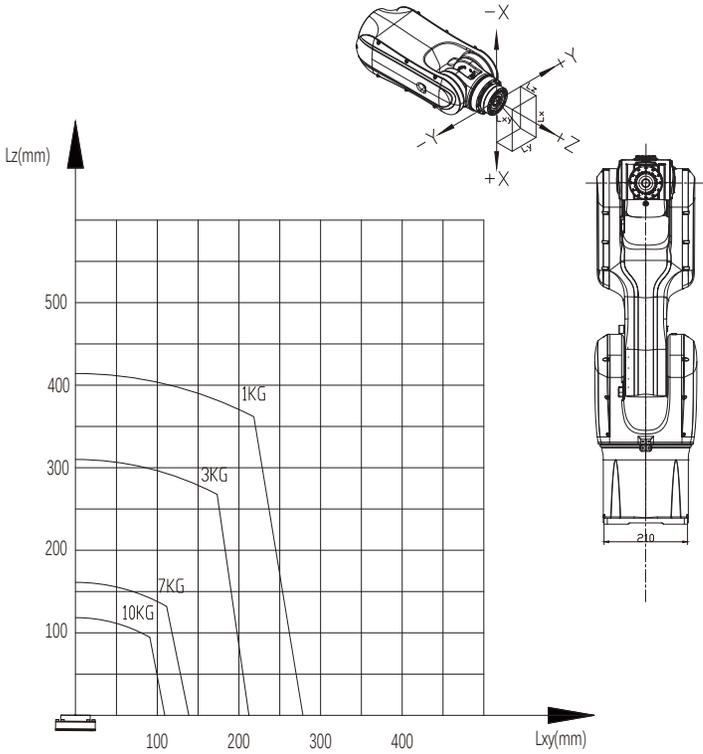
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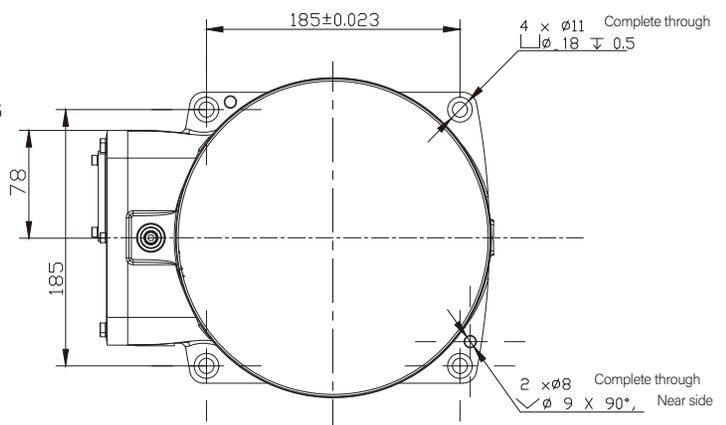
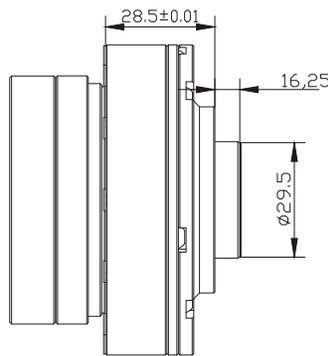
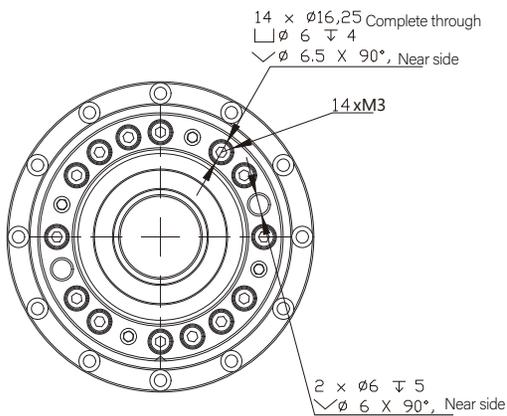
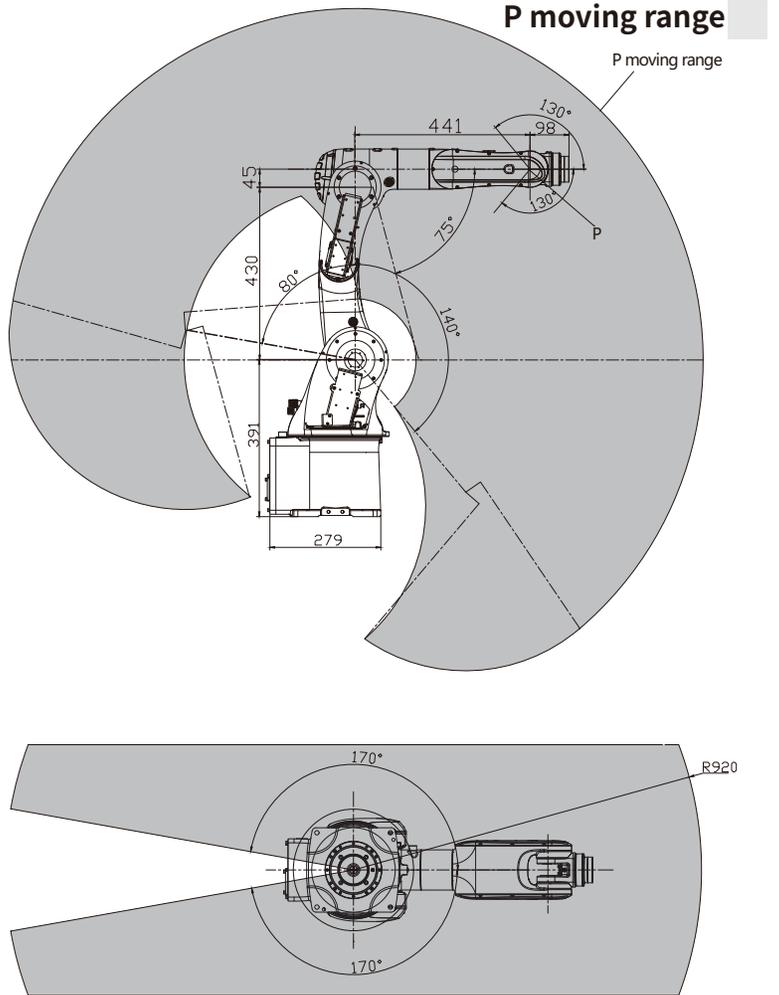
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Robot payload diagram



External dimensions and moving range



End flange installation dimensions

Base installation dimensions



Number of axis	6-axis	Maximum speed		Moving range
Motion radius	990mm	J1 axis S	180°/s	±180°
Power capacity	4.5KVA	J2 axis L	180°/s	±180°
Max Payload	7KG	J3 axis U	240°/s	±180°
Repeatability	±0.04mm	J4 axis R	240°/s	±190°
Robot mass	26KG	J5 axis B	240°/s	±180°
Built-in air tube	Φ10	J6 axis T	240°/s	±360°
Protection class	IP67	J4 axis R(N.m)	Axis 4 R (N.m)	22
Input/Output signals	Standard 16 in/16 out 24 VDC	J5 axis B(N.m)	Axis 5 B (N.m)	17
Mounting position	Floor/frame/ceiling	J6 axis T(N.m)	Axis 6 T (N.m)	8



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	Number of axis	6-axis	Maximum speed		Moving range
	Motion radius	1250mm	J1 axis S	120°/s	±180°
	Power capacity	4.5KVA	J2 axis L	120°/s	±180°
	Max Payload	12KG	J3 axis U	180°/s	±180°
	Repeatability	±0.04mm	J4 axis R	180°/s	±190°
	Robot mass	43KG	J5 axis B	180°/s	±180°
	Built-in air tube	Φ10	J6 axis T	180°/s	±360°
	Protection class	IP67	J4 axis R(N.m)	Axis 4 R (N.m)	35
	Input/Output signals	Standard 16 in/16 out 24 VDC	J5 axis B(N.m)	Axis 5 B (N.m)	25
	Mounting position	Floor/frame/ceiling	J6 axis T(N.m)	Axis 6 T (N.m)	11

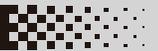


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Number of axis	6-axis	Maximum speed		Moving range
Motion radius	1420mm	J1 axis S	80°/s	±180°
Power capacity	4.5KVA	J2 axis L	80°/s	±180°
Max Payload	20KG	J3 axis U	120°/s	±180°
Repeatability	±0.04mm	J4 axis R	120°/s	±190°
Robot mass	45KG	J5 axis B	100°/s	±180°
Built-in air tube	Φ10	J6 axis T	120°/s	±360°
Protection class	IP67	J4 axis R(N.m)	Axis 4 R (N.m)	65
Input/Output signals	Standard 16 in/16 out 24 VDC	J5 axis B(N.m)	Axis 5 B (N.m)	60
Mounting position	Floor/frame/ceiling	J6 axis T(N.m)	Axis 6 T (N.m)	28



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		6-axis	Maximum speed		Moving range
Motion radius	1800mm	J1 axis S	120°/s	$\pm 180^\circ$	
Power capacity	4.5KVA	J2 axis L	120°/s	$\pm 180^\circ$	
Max Payload	40KG	J3 axis U	120°/s	$\pm 220^\circ$	
Repeatability	$\pm 0.05\text{mm}$	J4 axis R	235°/s	$\pm 180^\circ$	
Robot mass	85KG	J5 axis B	235°/s	$\pm 180^\circ$	
Built-in air tube	$\Phi 10$	J6 axis T	235°/s	$\pm 270^\circ$	
Protection class	IP67	J4 axis R(N.m)	Axis 4 R (N.m)	102	
Input/Output signals	Standard 16 in/16 out 24 VDC	J5 axis B(N.m)	Axis 5 B (N.m)	86	
Mounting position	Floor/frame/ceiling	J6 axis T(N.m)	Axis 6 T (N.m)	32	

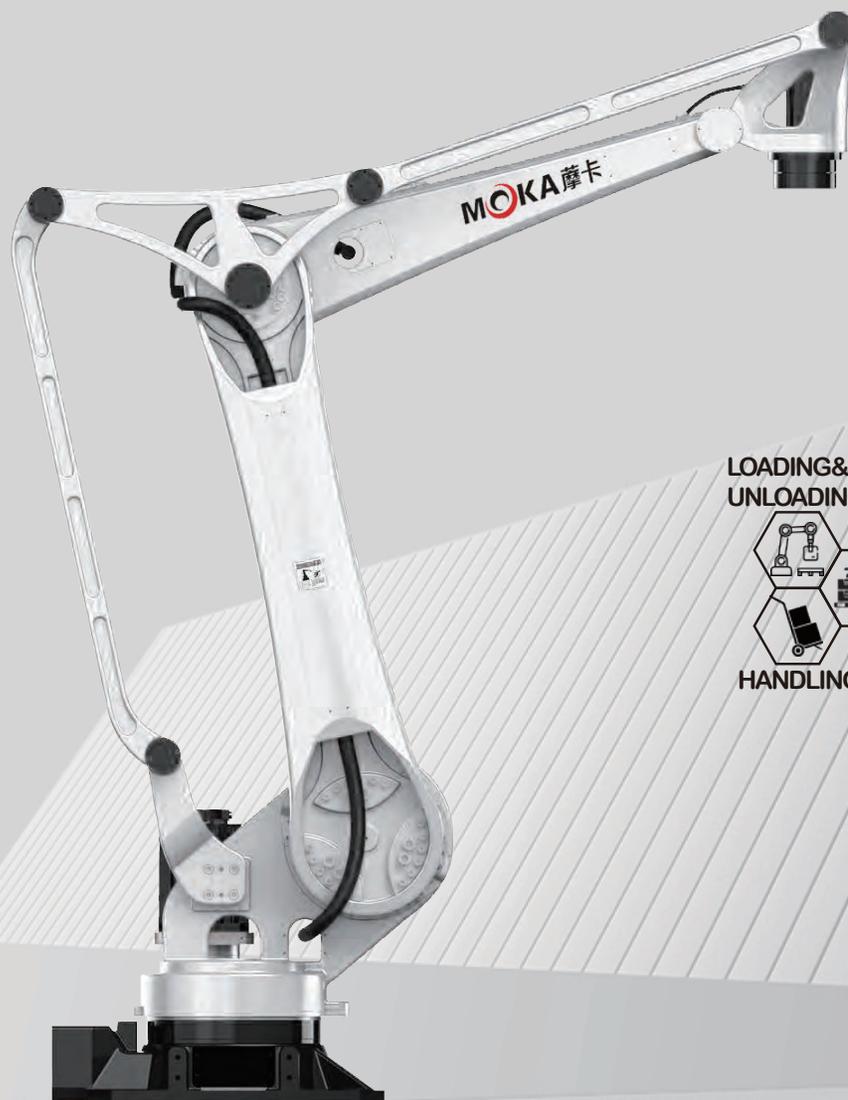


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LOADING & UNLOADING

PALLETIZING
HANDLING

Number of axis	4-axis		Maximum speed	Moving range
Motion radius	2300mm	J1 axis S	94°/s	±150°
Power capacity	4.4KVA	J2 axis L	90°/s	-60°~+35°
Max Payload	100KG	J3 axis U	111°/s	-50°~+60°
Protection class	IP63	J4 axis R	333°/s	±360°
Repeatability	±0.15mm		Mounting position	Floor
Robot mass	640KG			

TECHNICAL SPECIFICATION
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	450(width)*510(depth)*730(height)mm (with protrusions)
Approximate mass	70KG
Cooling method	Force Air cooling
Power specifications	1PH 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 drive
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



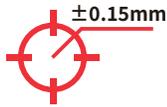
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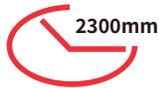
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Max payload



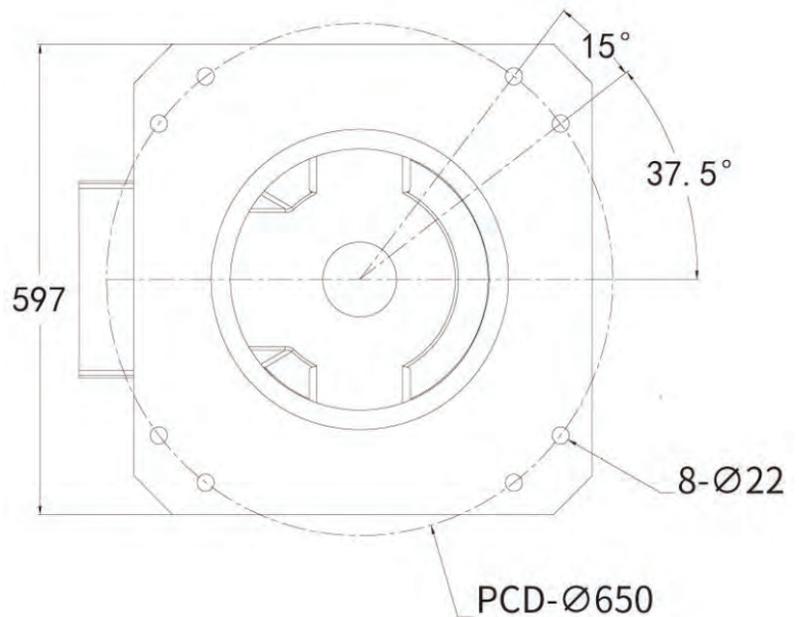
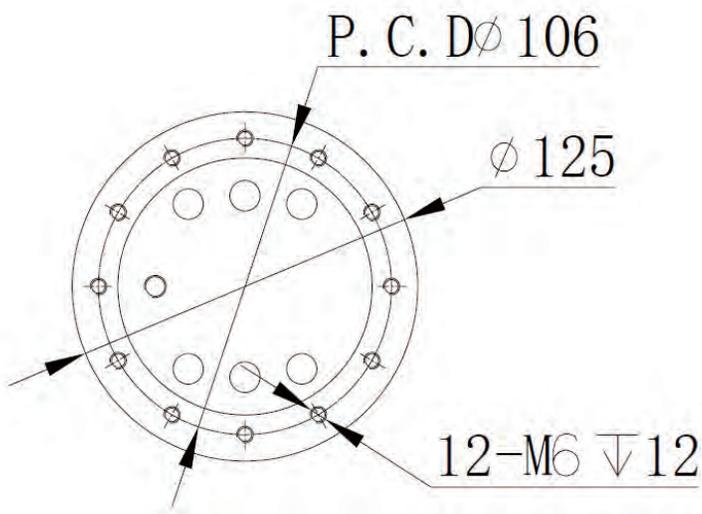
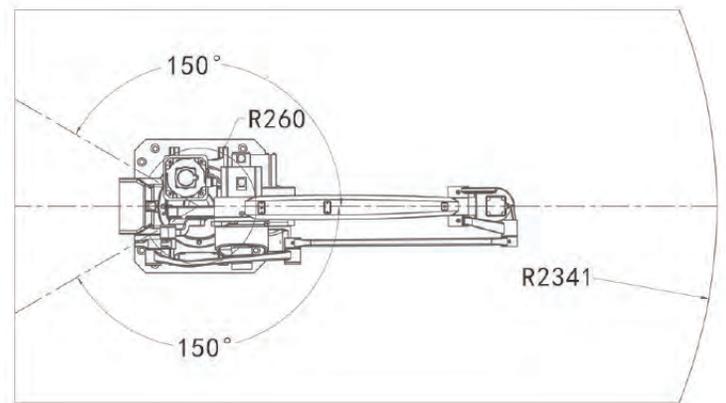
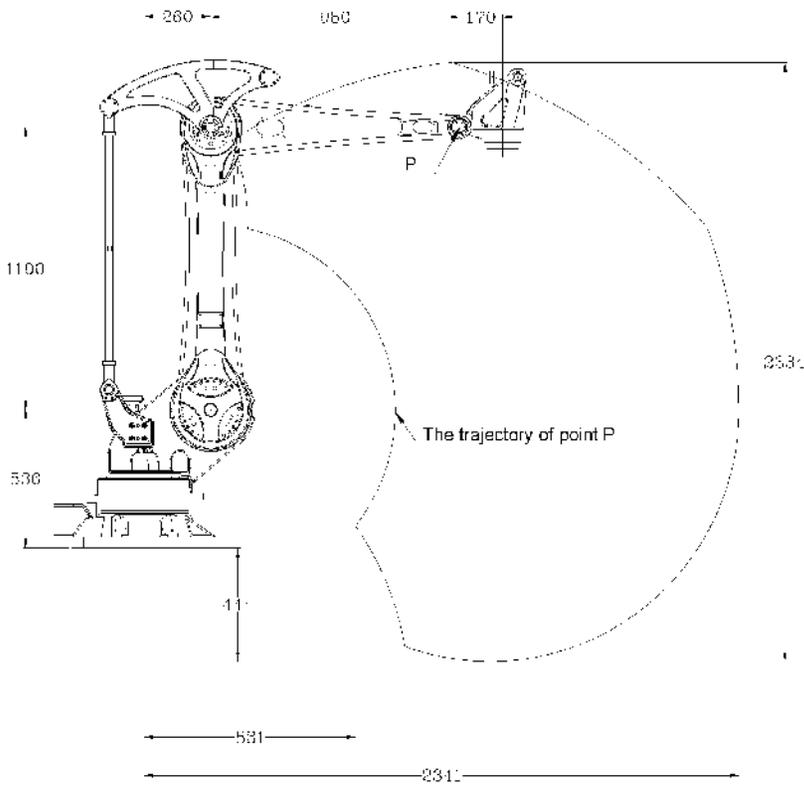
Repeatability



Moving range

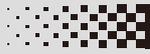
External dimensions and moving range ◀

Unit: mm



Flange ◀

Base ◀



LOADING & UNLOADING



PALLETIZING

HANDLING

Number of axis	4-axis	Maximum speed	Moving range
Motion radius	3200mm	J1 axis S	±180°
Power capacity	25.0KVA	J2 axis L	+38°~-80°
Max Payload	180KG	J3 axis U	+20°~-76°
Protection class	IP65	J4 axis R	±360°
Repeatability	±0.06mm	Input/Output signals	Standard 16 in/16 out 24 VDC
Robot mass	1150KG	Mounting position	Floor
Built-in air tube	Φ10		



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)
Rough quality	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 (4-axis); support external axis expansion
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.

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 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: 5m Optional: 15m

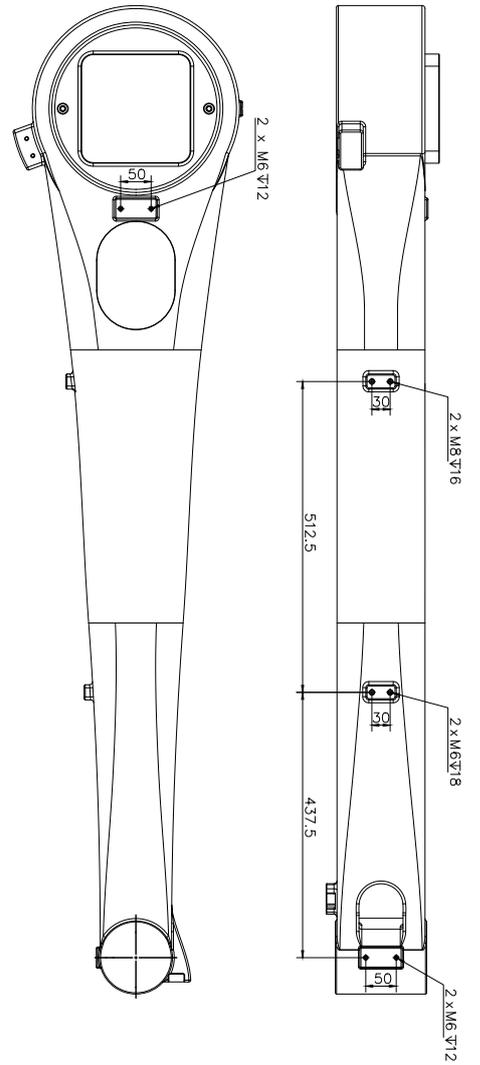
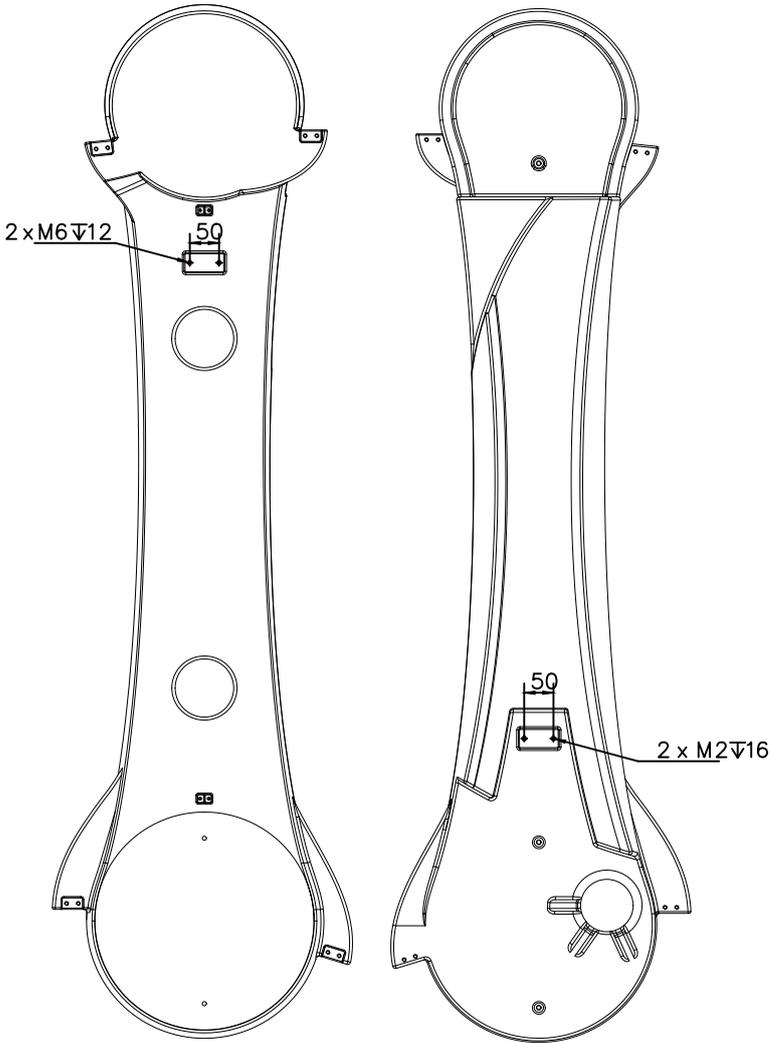
Manipulator

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



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LOADING & UNLOADING



PALLETIZING

HANDLING

Number of axis	4-axis	Maximum speed	Moving range
Motion radius	1488mm	J1 axis S	$\pm 170^\circ$
Power capacity	3.0KVA	J2 axis L	$-32^\circ \sim +80^\circ$
Max Payload	10KG	J3 axis U	$+20^\circ \sim -90^\circ$
Protection class	IP56/IP67	J4 axis R	$\pm 360^\circ$
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/S ² (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 (4-axis);supports external axis expansion
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

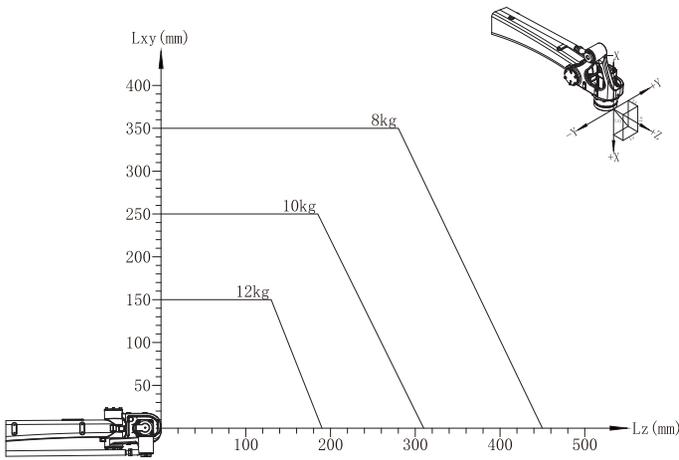


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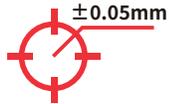
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Robot payload diagram



Max payload

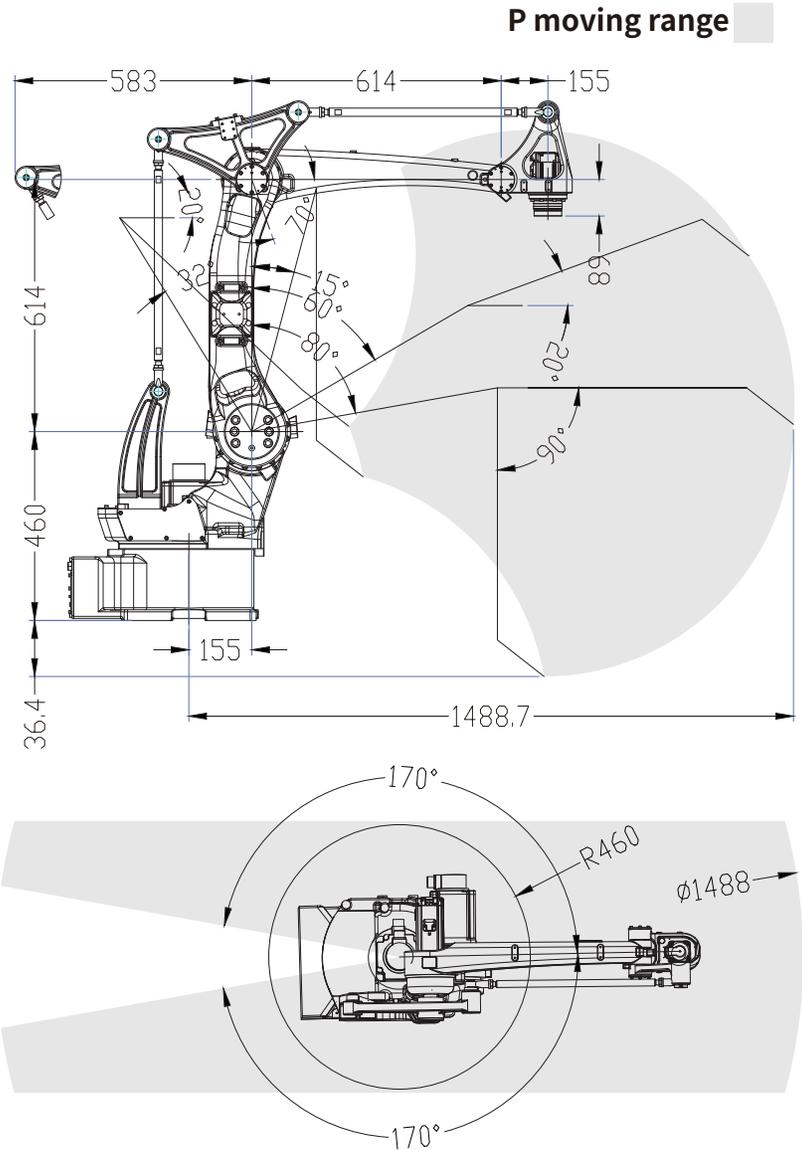


Repeatability



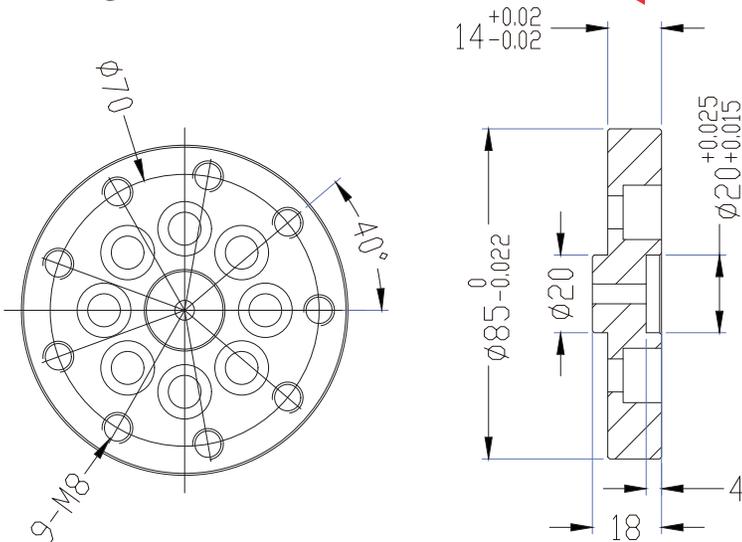
Moving range

External dimensions and moving range

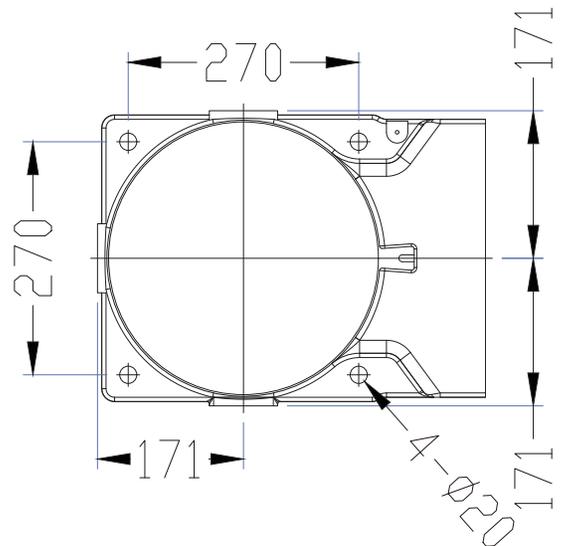


P moving range

Turning base installation dimensions



End flange installation dimensions



Base installation dimensions

MR30C-1750

PAYLOAD : 30KG

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

MOKA



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	$\Phi 10$			

MADE BY MOKAROBOT



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 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 (4-axis);supports external axis expansion
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

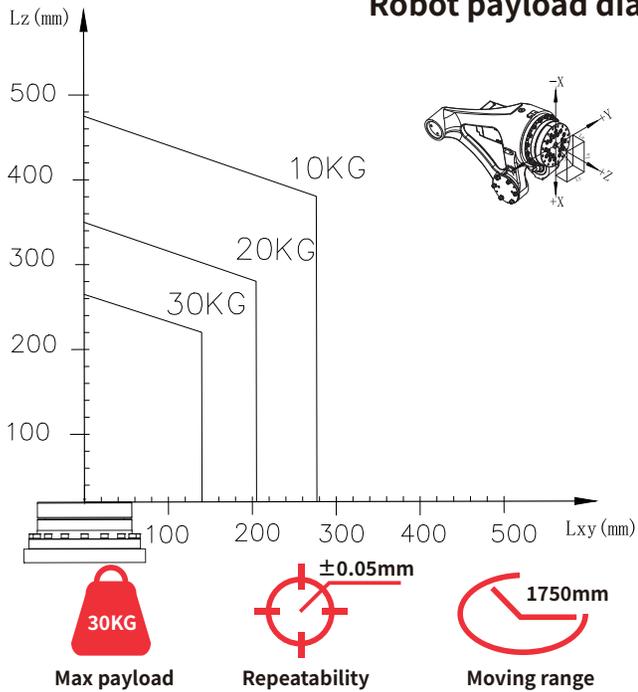
Manipulator	Selector, axis operation, value, mode selection with key (teach mode/auto mode/remote mode), emergency stop, enable, USB port etc
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ATTENTION

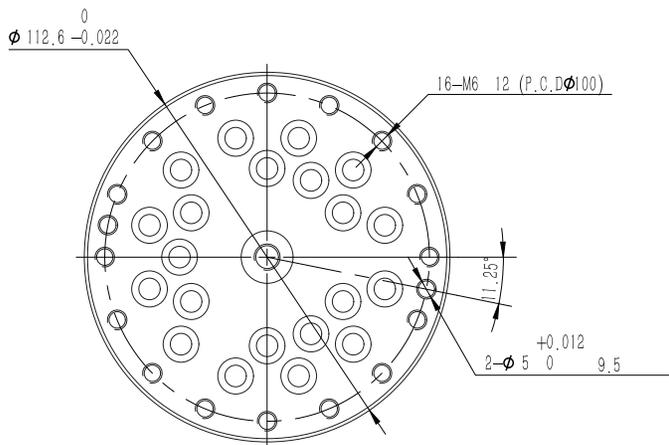
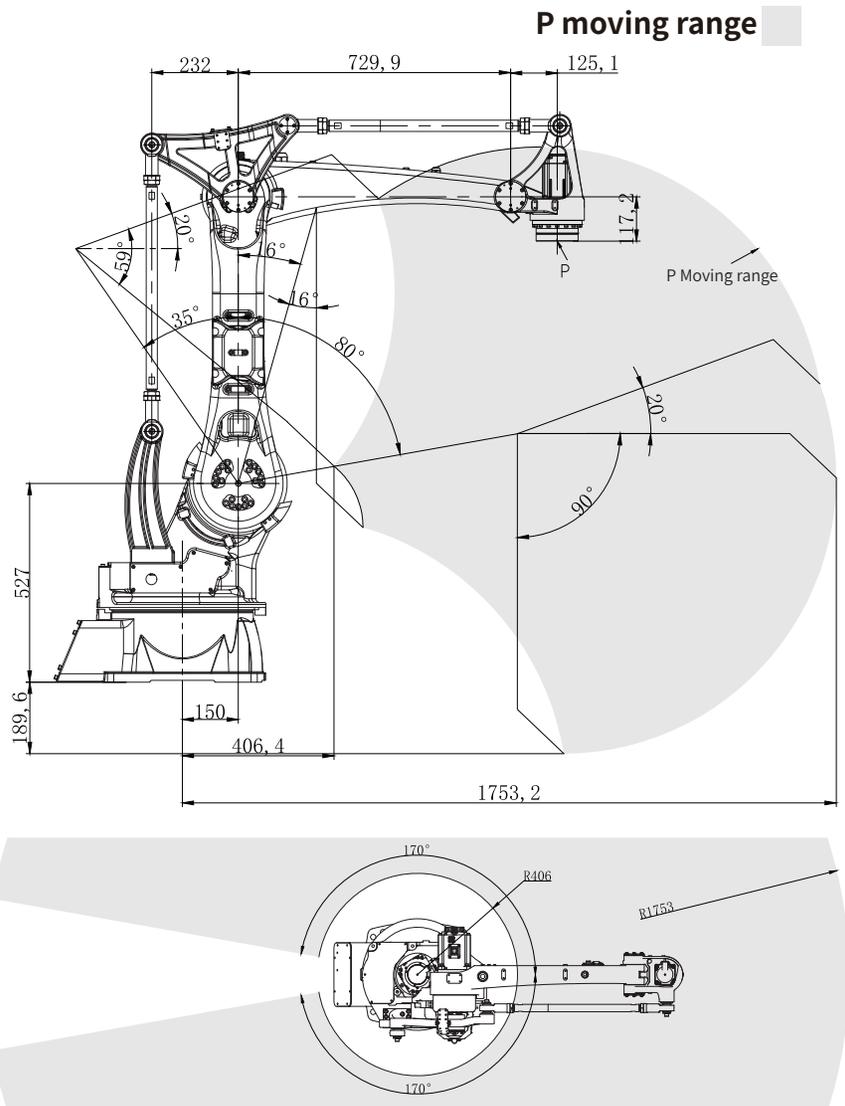
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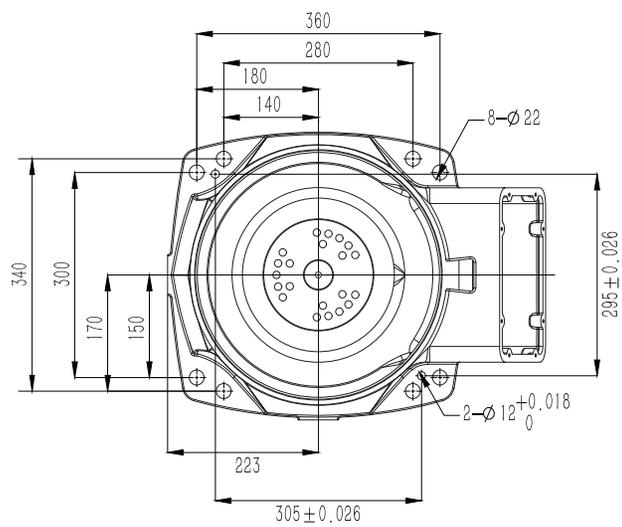
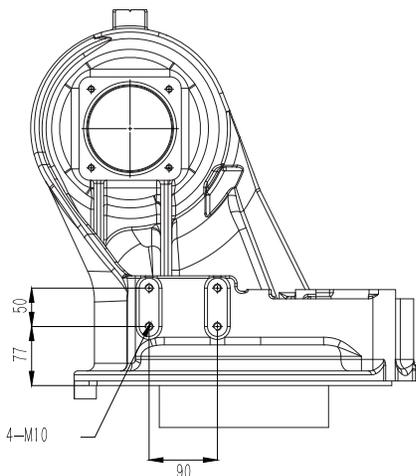
Robot payload diagram



External dimensions and moving range



End flange installation dimensions



Turning base installation dimensions

Base installation dimensions



	Number of axis	5-axis	Maximum speed	Moving range
	Motion radius	1500mm	J1 axis S	$\pm 180^\circ$
	Power capacity	4.5KVA	J2 axis L	$-85^\circ \sim +165^\circ$
	Max Payload	15KG	J3 axis U	$-85^\circ \sim +150^\circ$
	Protection class	IP65/IP67	J4 axis R	
	Repeatability	$\pm 0.03\text{mm}$	J5 axis B	$\pm 180^\circ$
	Robot mass	300KG	J6 axis T	$\pm 210^\circ$
	Built-in air tube	$\Phi 10$	J4 axis R(N.m)	22
	Input/Output signals	Standard 16 in/16 out 24 VDC	J5 axis B(N.m)	22
	Mounting position	Floor/frame	J6 axis T(N.m)	12



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MB15CD-1500

PAYLOAD : 15KG

REPEATABILITY : $\pm 0.03\text{mm}$



Number of axis	5-axis		Maximum speed	Moving range
Motion radius	1500mm	J1 axis S	245°/s	$\pm 180^\circ$
Power capacity	4.5KVA	J2 axis L	210°/s	$-85^\circ \sim +165^\circ$
Max Payload	15KG	J3 axis U	270°/s	$-85^\circ \sim +150^\circ$
Protection class	IP65/IP67	J4 axis R		
Repeatability	$\pm 0.03\text{mm}$	J5 axis B	360°/s	$\pm 180^\circ$
Robot mass	300KG	J6 axis T	720°/s	$\pm 210^\circ$
Built-in air tube	$\Phi 10$	J4 axis R(N.m)		22
Input/Output signals	Standard 16 in/16 out 24 VDC	J5 axis B(N.m)		22
Mounting position	Floor/frame	J6 axis T(N.m)		12



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	Three-phase AC220V 50/60HZ (built-in AC380V to AC220V isolation 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); support external axis expansion
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

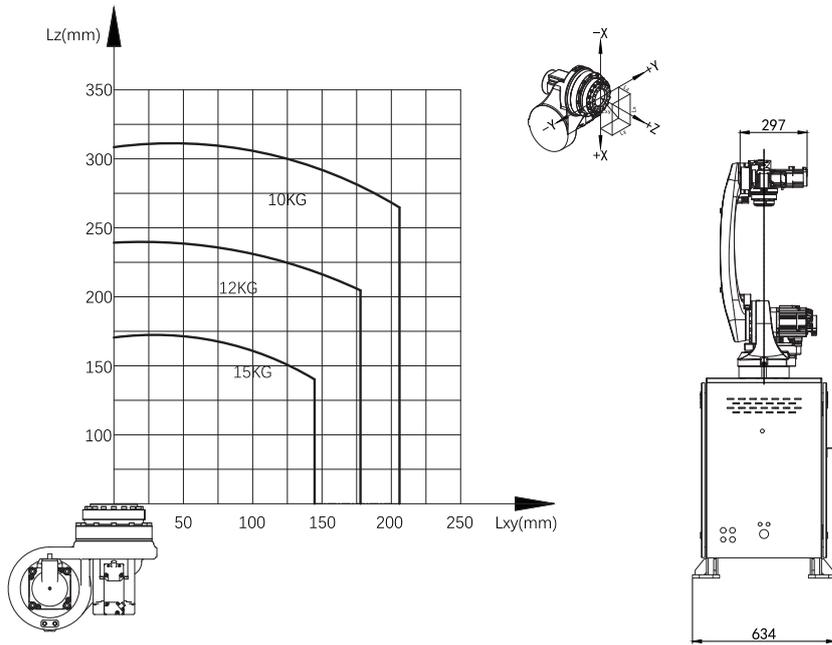
Manipulator

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

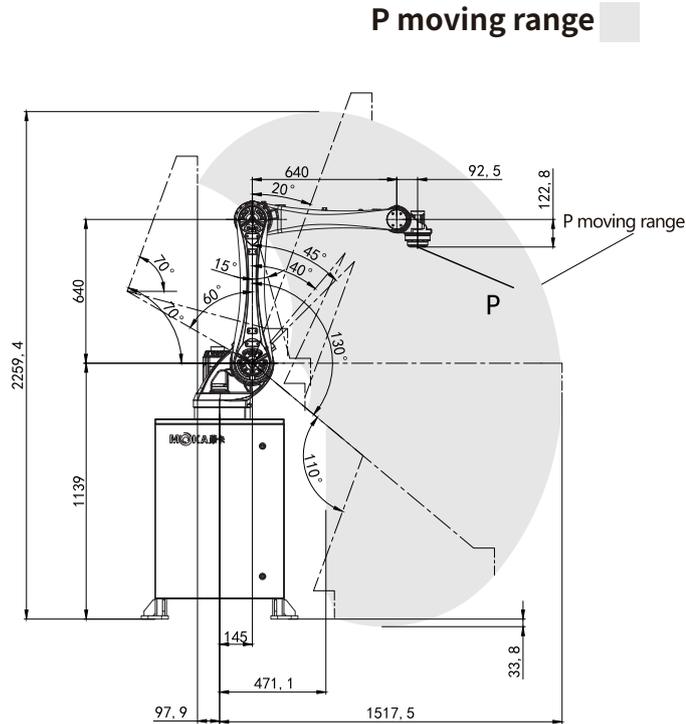


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Robot payload diagram



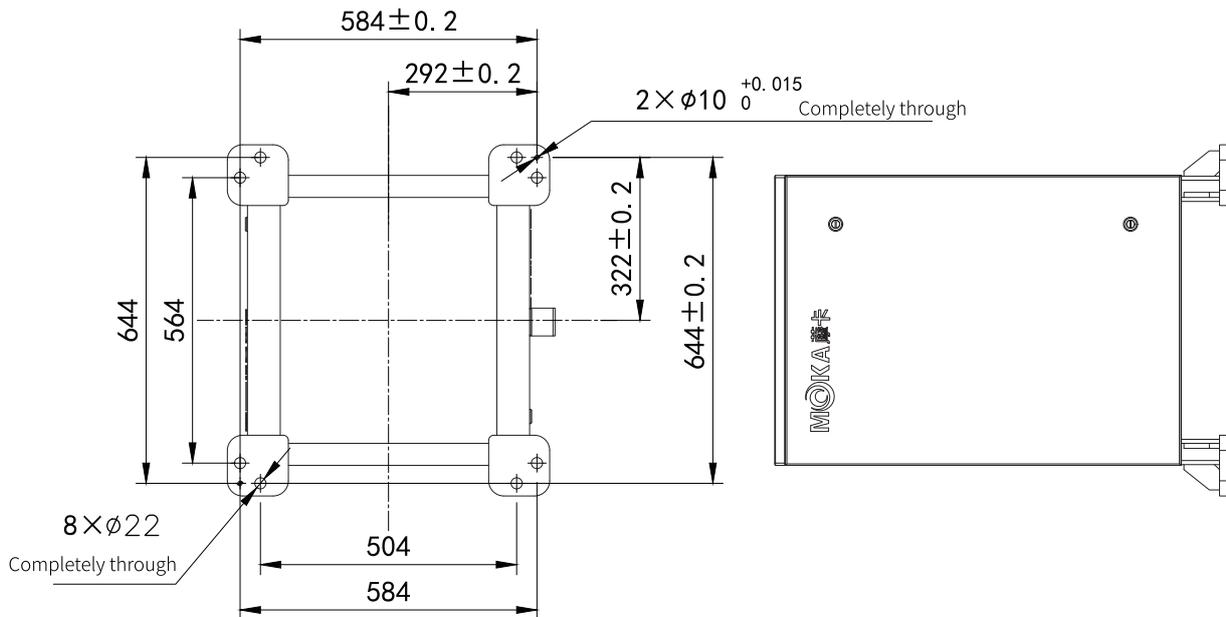
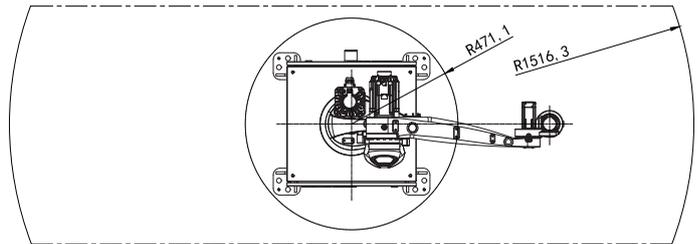
External dimensions and moving range



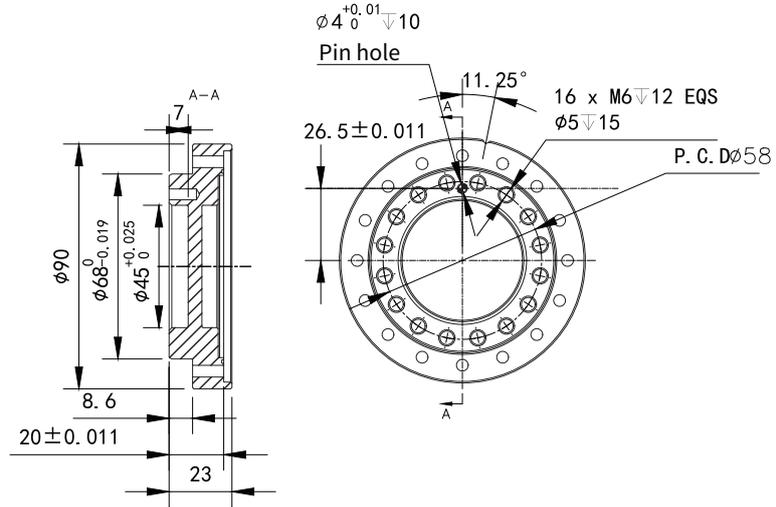
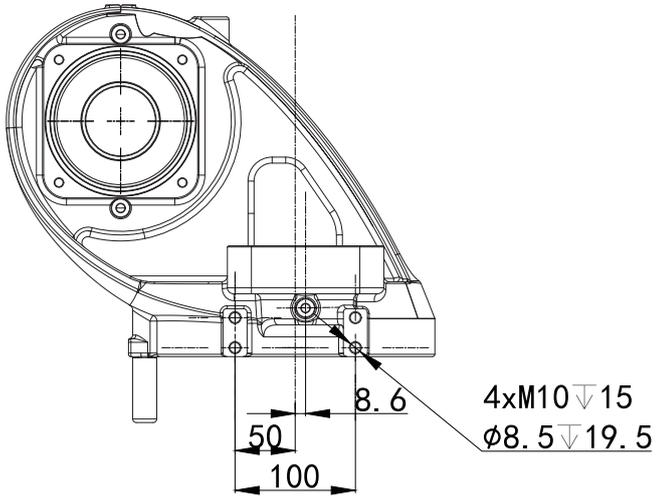
15KG
Max payload

$\pm 0.03\text{mm}$
Repeatability

1500mm
Moving range

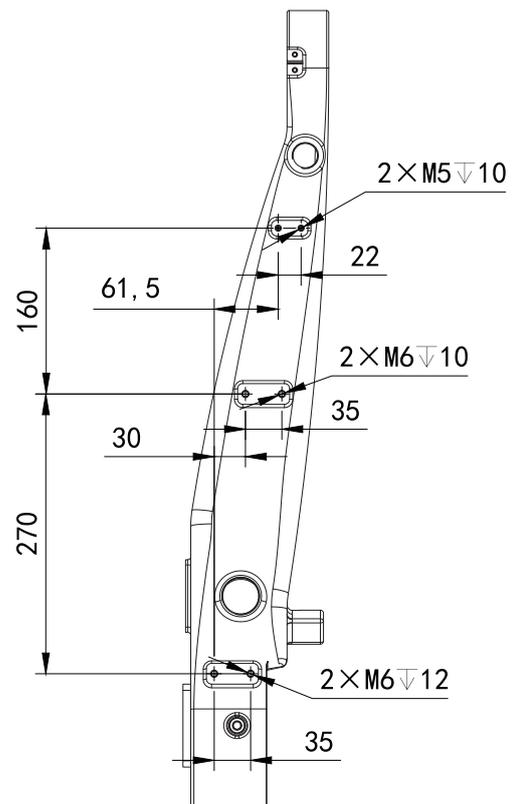
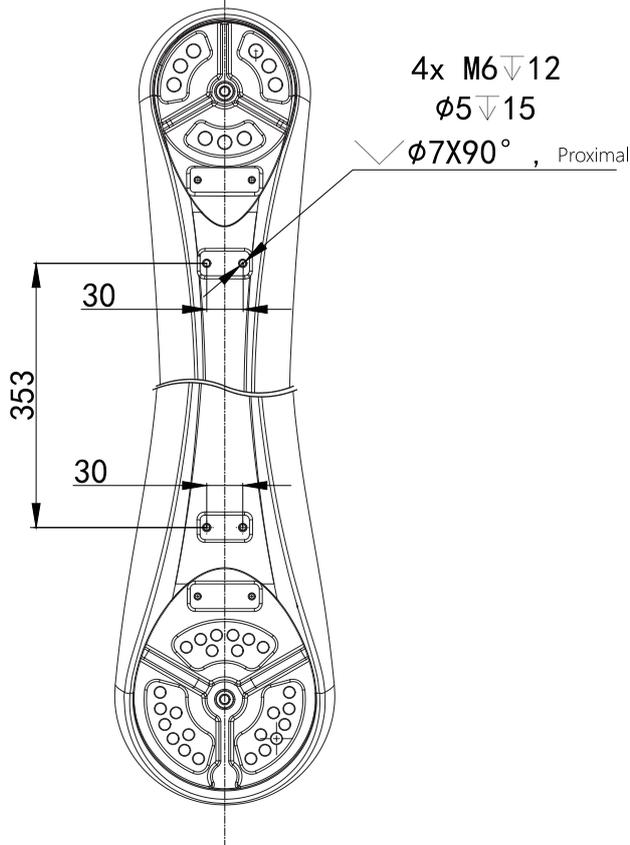


Base installation dimensions



J2 transposition installation dimensions ◀

J4 motor seat installation dimensions ◀



J3 arm installation dimensions ◀

J5 wrist installation dimensions ◀



Model	MRC-A100
Control Axes	4/6-axis
Install	Vertical installation/horizontal installation
Memory Capacity	JOB: 200000 steps,10000 robot commands (total 200M)
Operation Mode	Teaching/replay/remote
Power On And Off Interval Time	10S
Standard I/O	Universal digital IO: standard 16 input and 16 NPN input (expandable)
Display	1*VGA: max resolution up 2560×1600@60Hz
Expansion Slot	16 input/16 expansion IO module
	2 high-speed encoder signal interface (for tracking)
	1*RS232/422/485
	3*RJ45IntelI211ATGbE (10/100/1000Mbps)
Input Voltage Range	Support CAN, ModbusTCP, CC-Link, TCPIP, etc.
Protection Class	Rated 1PH 220VAC 50/60HZ (the input voltage is within $\pm 7\%$ of the rated voltage)
EMC Test Environment	IP54
Installation Environment	Support IEC61000-6-2
Dimensions (WDH)	Temperature:0~55°C, Humidity:10~80%RH(no condensing), Below 1000M
Supported Models (Standard Configuration)	350(width)*368(depth)*204(height)mm (with protrusions)
	MB04S/MB04SC/MB10S/MB10SC


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Model	MRC-B200
Control Axes	4/6-axis
Install	Vertical installation/horizontal installation
Memory Capacity	JOB: 200000 steps,10000 robot commands (total 200M)
Operation Mode	Teaching/replay/remote
Power On And Off Interval Time	10S
Standard I/O	Universal digital IO: standard 16 input and 16 NPN input (expandable)
Display	1*VGA: max resolution up 2560×1600@60Hz
Expansion Slot	16 input/16 expansion IO module
	2 high-speed encoder signal interface (for tracking)
	1*RS232/422/485
	3*RJ45IntelI211ATGbE (10/100/1000Mbps)
Input Voltage Range	Rated 1PH 220VAC 50/60HZ (the input voltage is within $\pm 7\%$ of the rated voltage)
Protection Class	IP54
EMC Test Environment	Support IEC61000-6-2
Installation Environment	Temperature:0~55°C, Humidity:10~80%RH(no condensing), Below 1000M
Dimensions (WDH)	390(width)*474(depth)*265(height)mm
Supported Models (Standard Configuration)	MB25SC/MR30C/MB15/MB20/MR10C/MB25



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Model	MRC-D500
Control Axes	4/6-axis
Install	Vertical installation/horizontal installation
Memory Capacity	JOB: 200000 steps,10000 robot commands (total 200M)
Operation Mode	Teaching/replay/remote
Power On And Off Interval Time	10S
Standard I/O	Universal digital IO: standard 16 input and 16 NPN input (expandable)
Display	1*VGA: max resolution up 2560×1600@60Hz
Expansion Slot	16 input/16 expansion IO module
	2 high-speed encoder signal interface (for tracking)
	1*RS232/422/485
	3*RJ45IntelI211ATGbE (10/100/1000Mbps)
Input Voltage Range	Rated 1PH 220VAC 50/60HZ (the input voltage is within $\pm 7\%$ of the rated voltage)
Protection Class	IP54
EMC Test Environment	Support IEC61000-6-2
Installation Environment	Temperature:0~55°C, Humidity:10~80%RH(no condensing), Below 1000M
Dimensions (WDH)	610(width)*440(depth)*725(height)mm
Supported Models (Standard Configuration)	MB10W/MB30/MB35/MB45/MB45G/MB50/MB70/MB150/MB180C/MB220/MB280


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