



Higher Precision



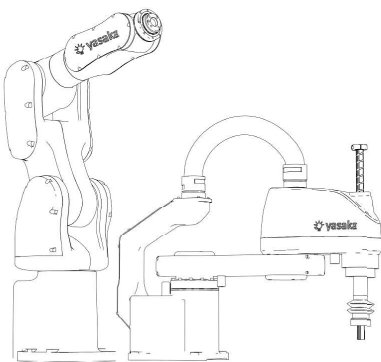
Higher Protection Level(IP67)



Higher Speed

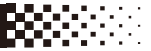


Better Price Performance





Axis	6 axis		Maximum speed	Movement range
Motion radius	580mm	J1 axis S	480°/s	±170°
Power capacity	2.0KVA	J2 axis L	460°/s	-150°~+90°
Payload	4KG	J3 axis U	520°/s	-70°~+200°
Repeatability	±0.02mm	J4 axis R	560°/s	±190°
Robot mass	27KG	J5 axis B	560°/s	±125°
Built-in air tube	Φ6	J6 axis T	880°/s	±360°
Protection class	IP67	Input/Output signals	Standard 16 in/16 out 24 VDC	
		Mounting position	Floor/frame/ceiling	



## Installation Environment

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

## Control cabinet parameters

Overall dimension	420(width)*450(depth)*200(height)mm(with protrusions)
Rough quality	18.5KG
Cooling method	Natural cooling
Power specifications	1PH 220V 50/60HZ
Grounding	Industrial grounding (dedicated grounding, resistance below100Ω)
Input/Output signal	General signal:16 input,16 output
Position control method	Serial communication EtherCAT.TCP/IP
Memory capacity	JOB: 200000 steps,10000 robot commands (total 200M)
LAN(Host link)	Ethercat(1pcs) TCP/IP(1pcs)
Control mode	Servo position control
Ambient temperature	In use:0~ + 45°C,In storage: - 20~ + 60°C
Driver unit	AC servo system (4 axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G
<b>Serial port I/F</b>	
RS485(1pcs) RS422(1pcs) RS232(1pcs) CAN(1pcs) USB(1pcs)	
<b>Altitude</b>	
Below 1000m. Derate 1% for every additional 100m if over 1000m. Maximum 2000m.	
<b>Other</b>	
No dust, cutting fluid (including coolant), organic solvent, oil smoke, water, salt, medicine, anti-rust oil, strong microwave, ultraviolet light, X-ray, radiation exposure	

## Teach pendant specifications

External dimensions	280(width)*220(depth)*120(height)mm(with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED,640*480 pixels
Protection class	IP54
Cable Length	Standard:6m Optional:8m/10m/15m

### manipulator

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


**ATTENTION**

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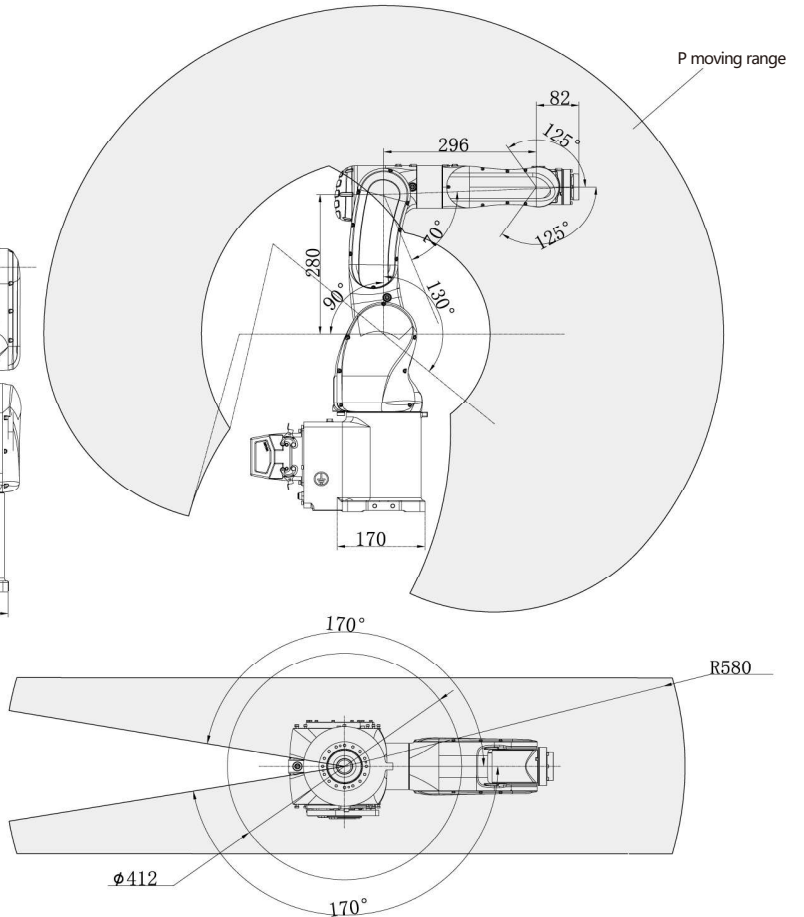
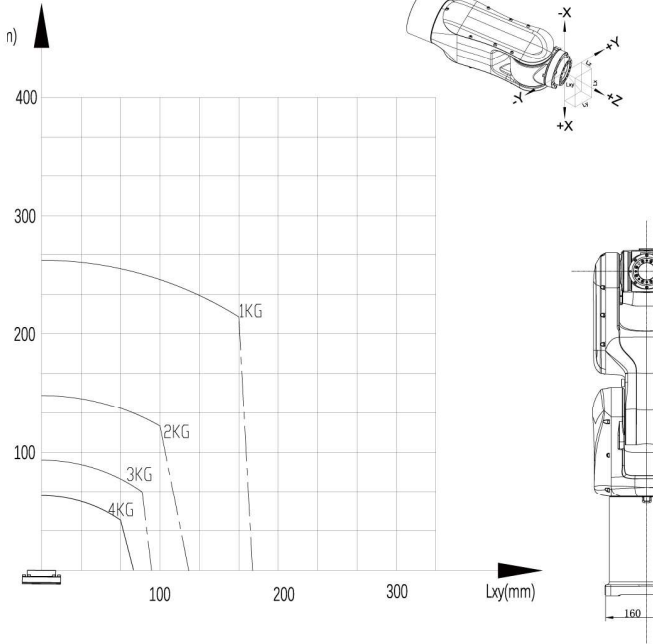
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# SPECIFICATIONS

## Robot payload diagram

## External dimensions and moving range

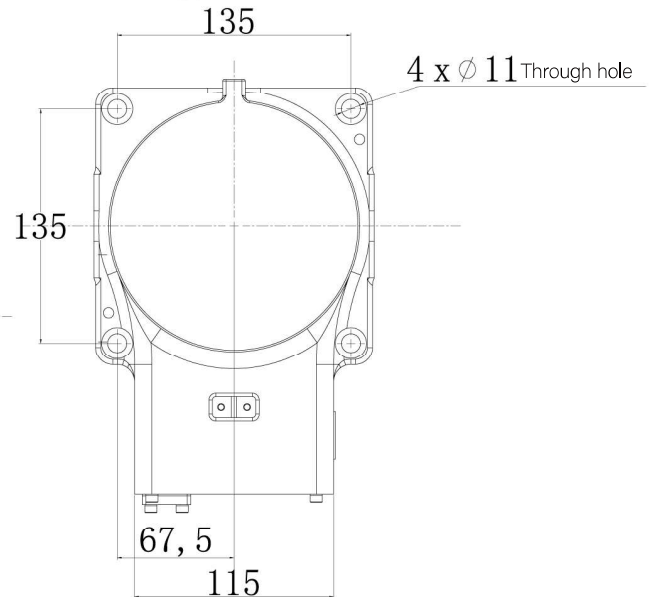
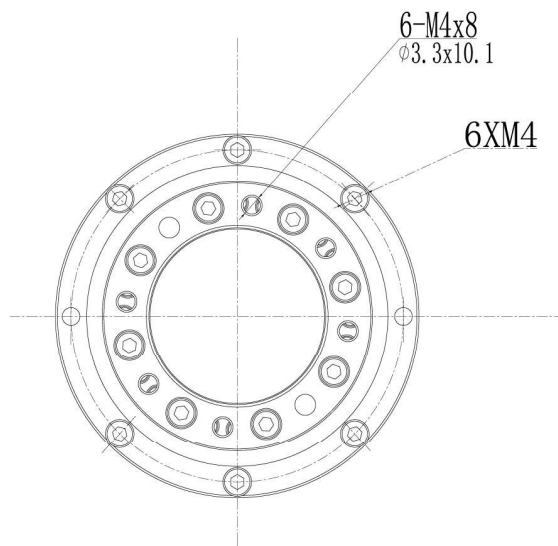
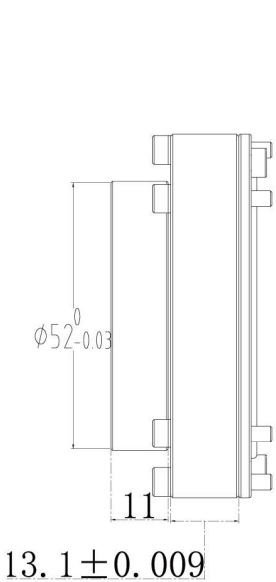
### P moving range



**4KG**  
Max payload

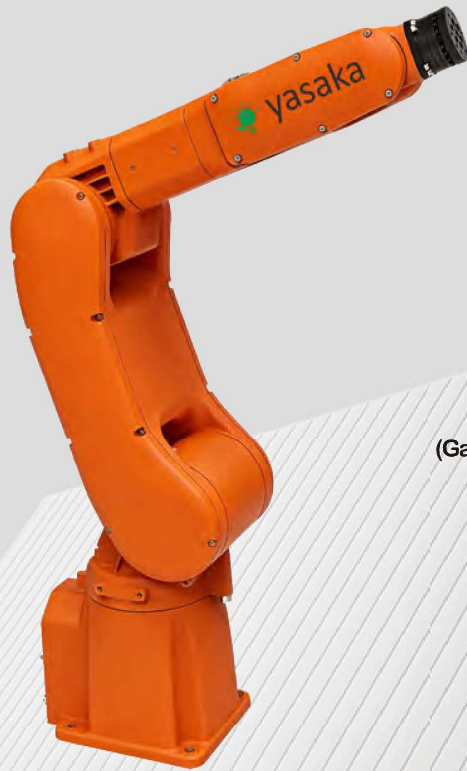
$\pm 0.02\text{mm}$   
Repeatability

580mm  
Moving range



## End flange installation dimensions

## Base installation dimensions



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

	Number of axis	6-axis	Maximum speed	Moving range
	Motion radius	948mm	J1 axis 210°/s	±170°
	Max payload	5 KG	J2 axis 210°/s	-145°~+80°
	Protection class	IP65	J3 axis 255°/s	-70°~+180°
	Repeatability	±0.05mm	J4 axis 410°/s	±180°
	Robot mass	43 KG	J5 axis 550°/s	±130°
	Mounting position	Floor/ceiling	J6 axis 375°/s	±360°
	J4 axis(kg.m <sup>2</sup> )	0.32	J4 axis(N.m)	10.4
	J5 axis(kg.m <sup>2</sup> )	0.32	J5 axis(N.m)	10.4
	J6 axis(kg.m <sup>2</sup> )	0.13	J6 axis(N.m)	5.9



### 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
Vibration	Below 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 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	RS232/RS422/RS485 (1PC) RS232 (1PC) RJ45 (3PC)
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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**

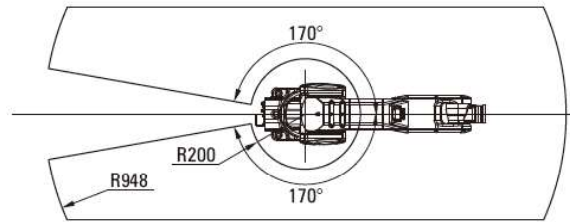
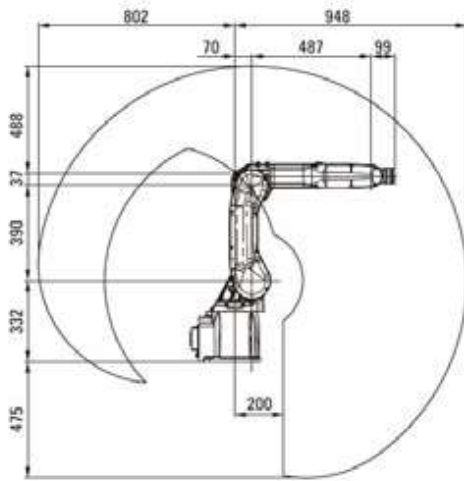
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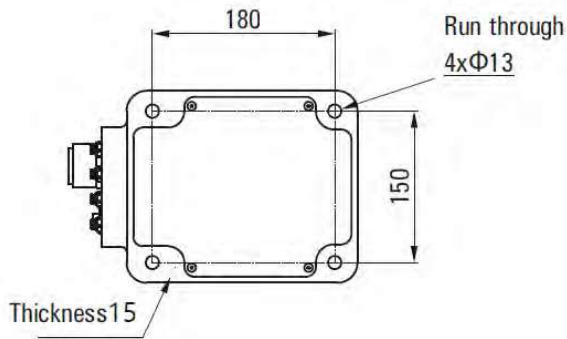
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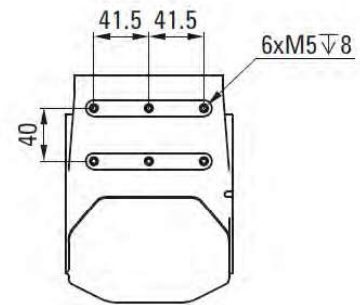
Work scope diagram ◀



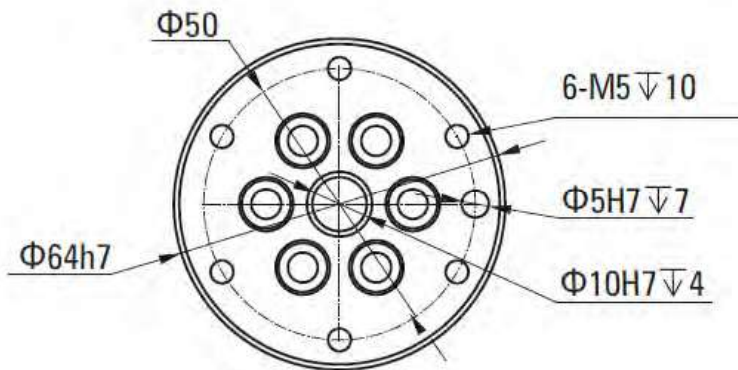
▶ Installation interface diagram



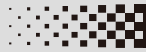
Anchor fixation



Shoulder installation



End flange



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

	Number of axis	6-axis	Maximum speed	Moving range
	Motion radius	827mm	J1 axis 210°/s	±170°
	Max payload	8 KG	J2 axis 210°/s	-145°~+80°
	Protection class	IP65	J3 axis 255°/s	-70°~+180°
	Repeatability	±0.05mm	J4 axis 410°/s	±180°
	Robot mass	42 KG	J5 axis 550°/s	±130°
	Mounting position	Floor/ceiling	J6 axis 375°/s	±360°
	J4 axis(kg.m <sup>2</sup> )	0.5	J4 axis(N.m)	16.6
	J5 axis(kg.m <sup>2</sup> )	0.5	J5 axis(N.m)	16.6
	J6 axis(kg.m <sup>2</sup> )	0.2	J6 axis(N.m)	9.4



### 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
Vibration	Below 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 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**

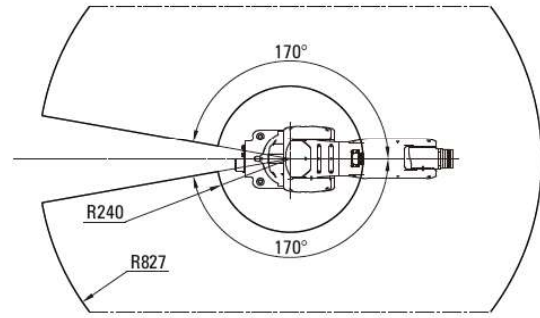
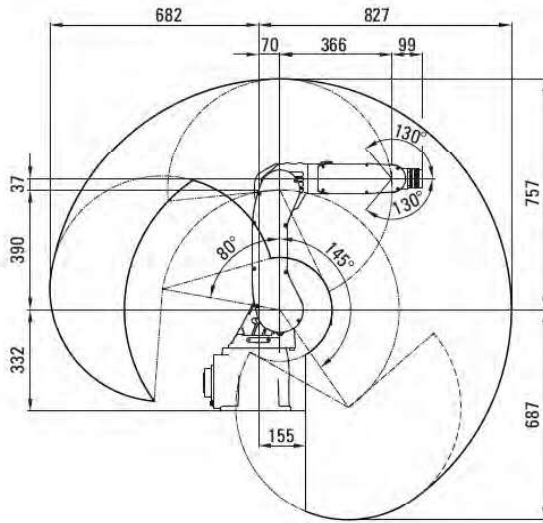
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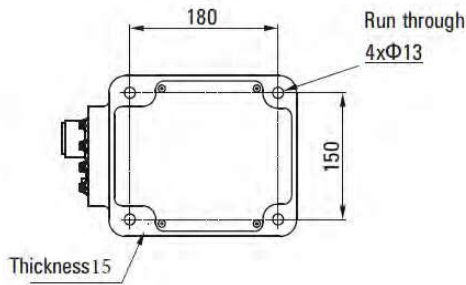
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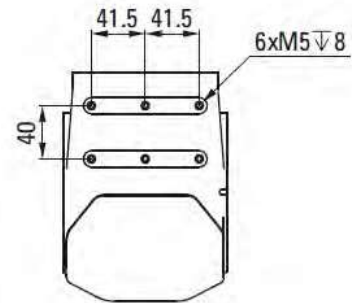
Work scope diagram ◀



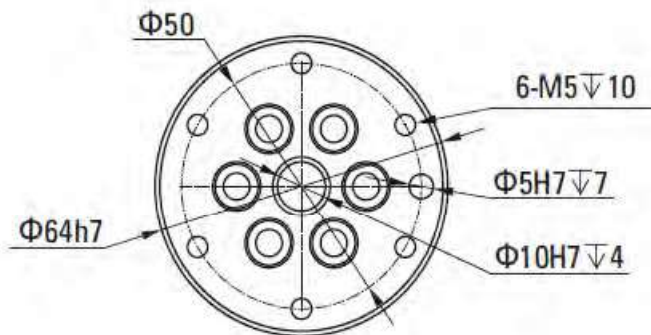
▶ Installation interface diagram



Anchor fixation



Shoulder installation

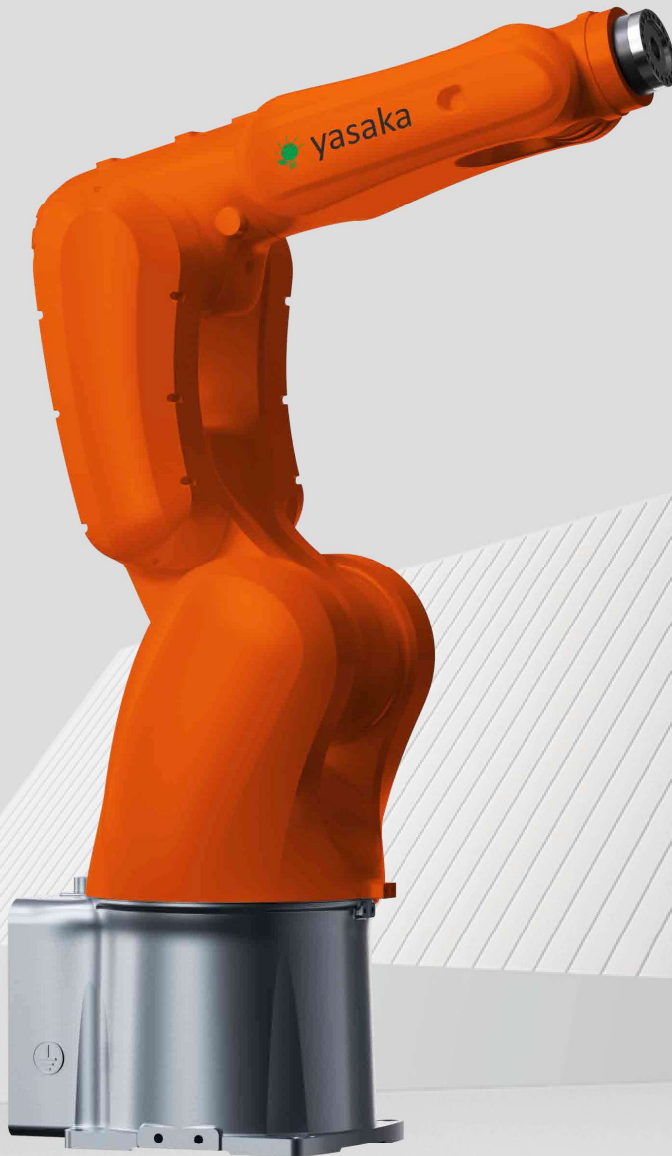


End flange

# YS10S-740

PAYLOAD : 10KG

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



Number of axis	6-axis		Maximum speed	Moving range
Motion radius	740mm	J1 axis S	300°/s	$\pm 170^\circ$
Power capacity	3.0KVA	J2 axis L	300°/s	$-140^\circ \sim +80^\circ$
Max Payload	10KG	J3 axis U	400°/s	$-75^\circ \sim +200^\circ$
Repeatability	$\pm 0.02\text{mm}$	J4 axis R	550°/s	$\pm 190^\circ$
Robot mass	45KG	J5 axis B	560°/s	$\pm 125^\circ$
Built-in air tube	$\Phi 6$	J6 axis T	975°/s	$\pm 360^\circ$
Protection class	IP67	Input/Output signals	Standard 16 in/16 out 24 VDC	
		Mounting position	Floor/frame/ceiling	



## Installation Environment

Temperature	0-45°C	Humidity	20~80%RH(no condensing)	No corrosive or combustible gas, no water, no splashing	No excessive oil or dust
Vibrations	Below 4.9M/S <sup>2</sup> (0.5G)	Altitude	Below 1000M	Away from electromagnetic source	Away from magnetic field

## Control cabinet specifications

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

### Serial port I/F

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

### Altitude

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

### Others

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

## Teach pendent specifications

External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED, 640*480 pixels
Protection class	IP54
Cable Length	Standard: 6m Optional: 8m/10m/15m

### Manipulator

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



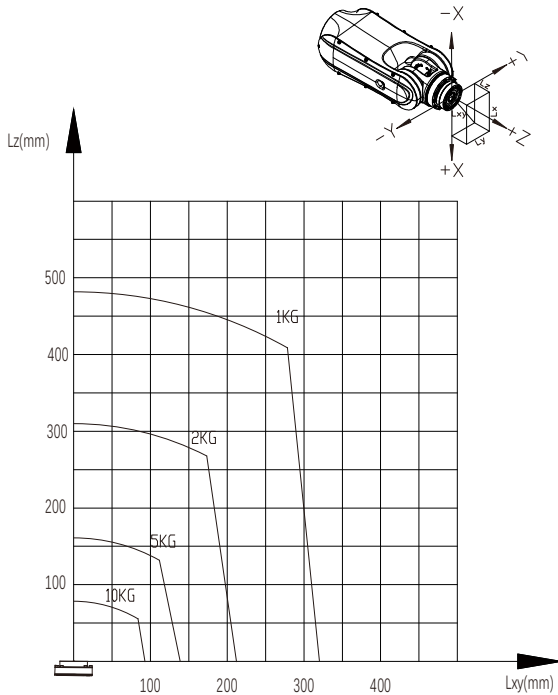
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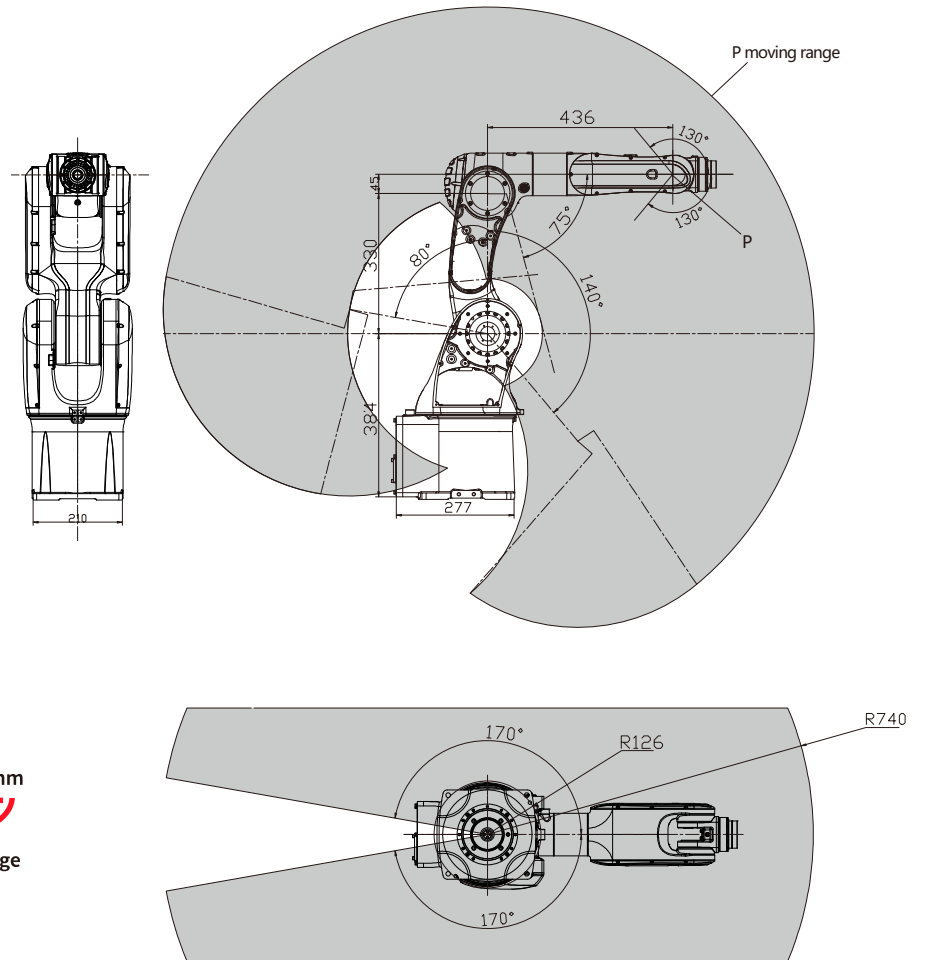
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### Robot payload diagram

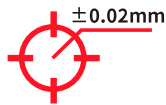


### External dimensions and moving range

P moving range



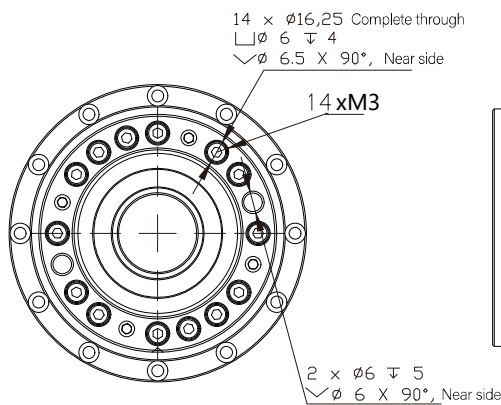
Max payload



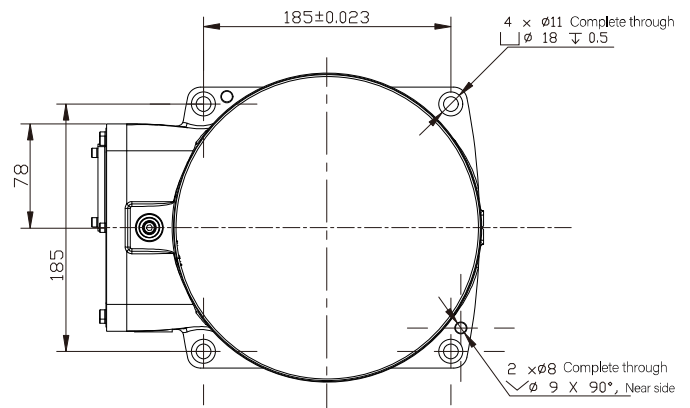
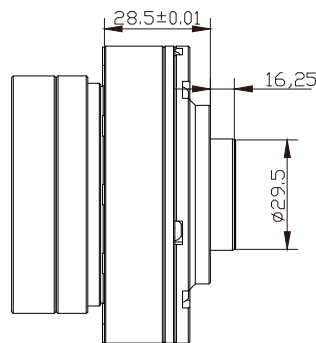
Repeatability



Moving range



### End flange installation dimensions

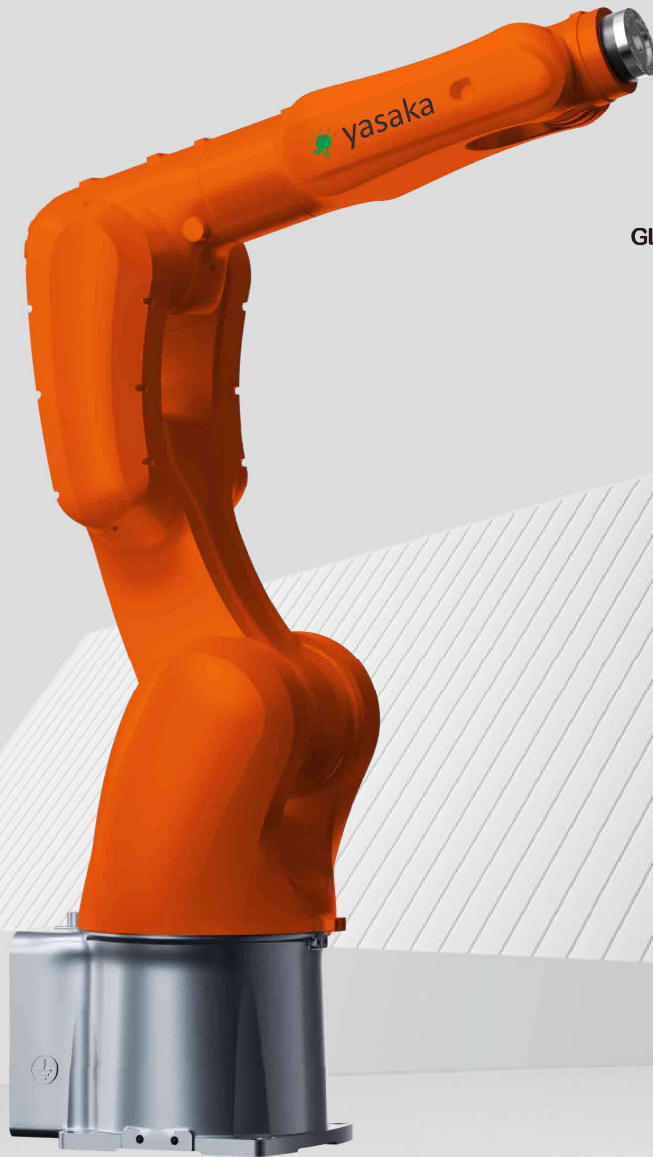


### Base installation dimensions

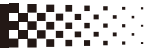
# YS10S-920

PAYLOAD : 10KG

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



Number of axis	6-axis	Maximum speed	Moving range
Motion radius	920mm	J1 axis S	$\pm 170^\circ$
Power capacity	3.0KVA	J2 axis L	$-140^\circ \sim +80^\circ$
Max Payload	10KG	J3 axis U	$-75^\circ \sim +200^\circ$
Repeatability	$\pm 0.02\text{mm}$	J4 axis R	$\pm 190^\circ$
Robot mass	47KG	J5 axis B	$\pm 130^\circ$
Built-in air tube	$\Phi 6$	J6 axis T	$\pm 360^\circ$
Protection class	IP67	Input/Output signals	Standard 16 in/16 out 24 VDC
		Mounting position	Floor/frame/ceiling



## Installation Environment

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

## Control cabinet specifications

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

Serial port I/F	RS485(1pc) RS422(1pc) RS232(1pc) CAN(1pc) USB(1pc)
Altitude	Below 1000m. Derate 1% for every additional 100m if over 1000m. Maximum 2000m.
Others	No dust, cutting fluid (including coolant), organic solvent, oil smoke, water, salt, medicine, anti-rust oil, strong microwave, ultraviolet light, X-ray, radiation exposure

## Teach pendant specifications

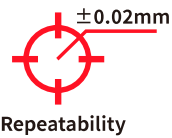
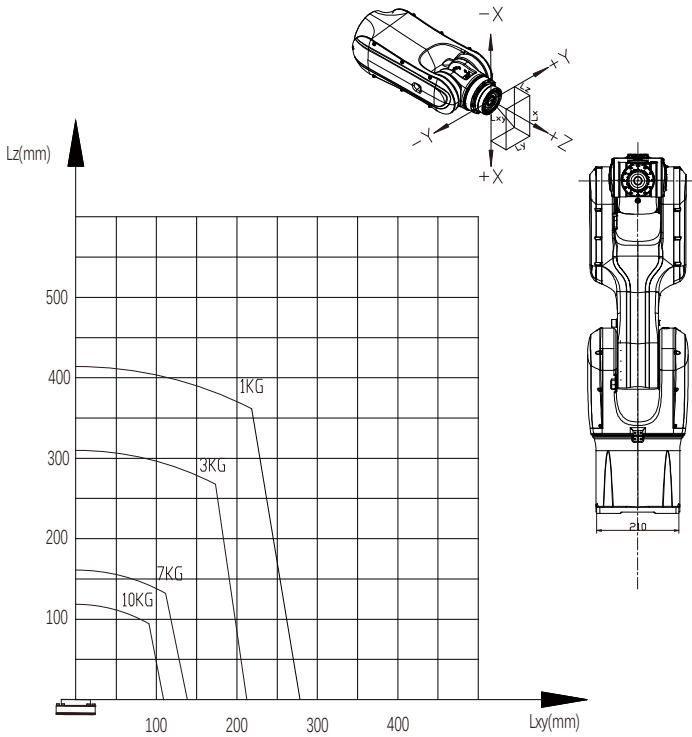
External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED, 640*480 pixels
Protection class	IP54
Cable Length	Standard: 6m Optional: 8m/10m/15m

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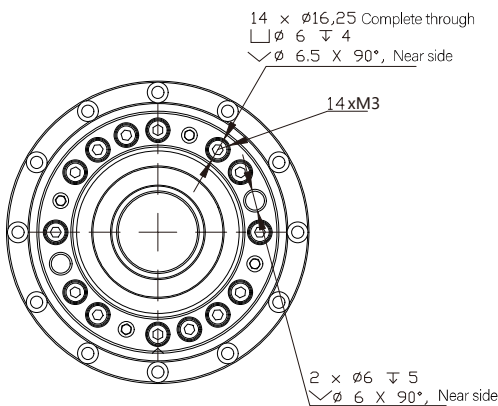
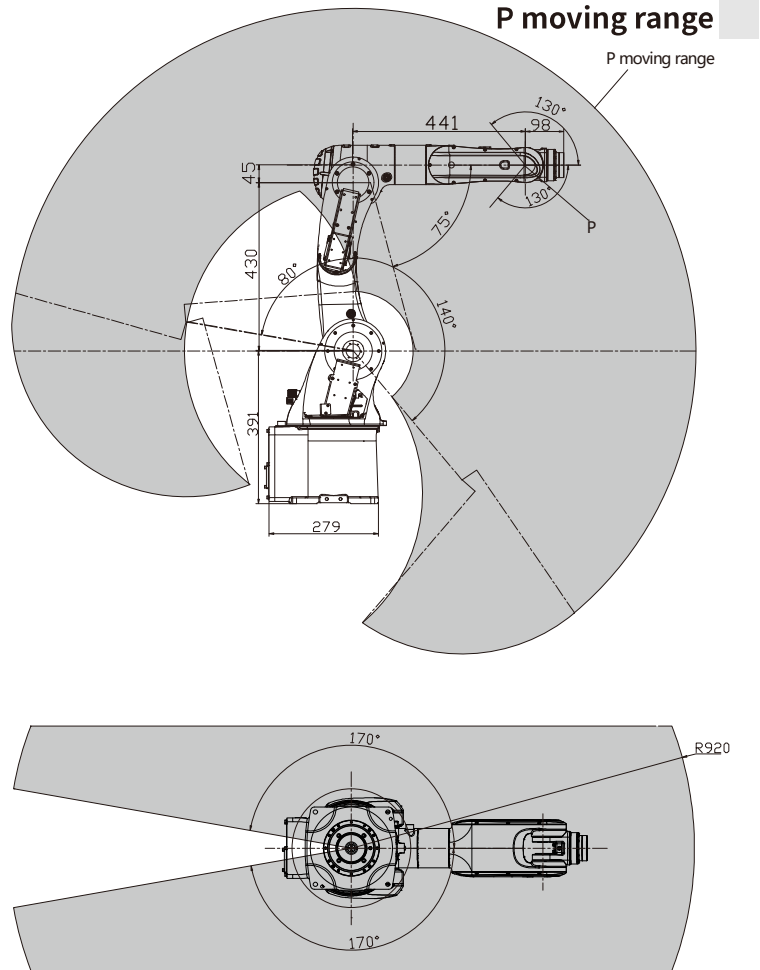


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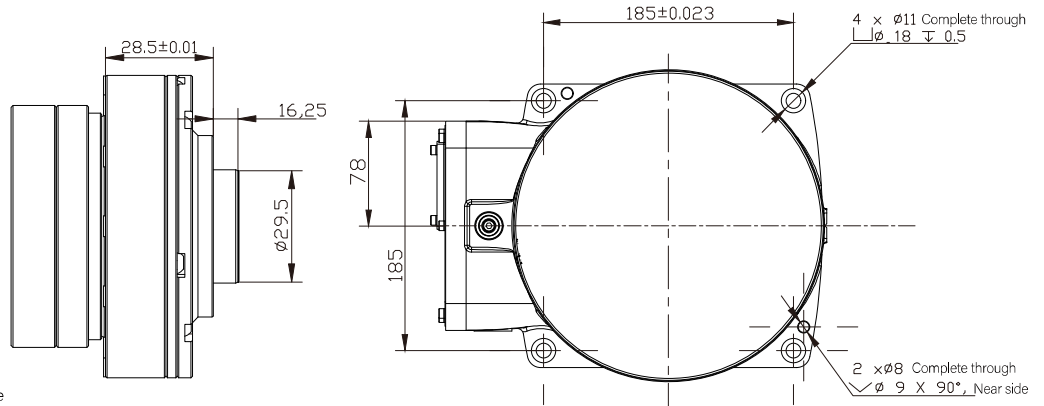
### Robot payload diagram



### External dimensions and moving range



### End flange installation dimensions



### Base installation dimensions


**SPECIAL FOR HANDLING**

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

	Number of axis	6-axis	Maximum speed	Moving range
	Motion radius	1463mm	J1 axis 200°/s	±180°
	Max payload	12 KG	J2 axis 185°/s	-125°~+90°
	Protection class	IP54/IP65	J3 axis 155°/s	-84°~+205°
	Repeatability	±0.05mm	J4 axis 265°/s	±170°
	Robot mass	116 KG	J5 axis 210°/s	-150°~+116°
	Mounting position	Floor/ceiling	J6 axis 260°/s	±360°
	J4 axis(kg.m <sup>2</sup> )	0.65	J4 axis(N.m)	22
	J5 axis(kg.m <sup>2</sup> )	0.65	J5 axis(N.m)	22
	J6 axis(kg.m <sup>2</sup> )	0.17	J6 axis(N.m)	9.8



### 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
Vibration	Below 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 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



**ATTENTION**

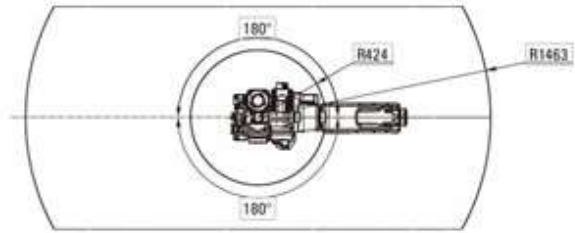
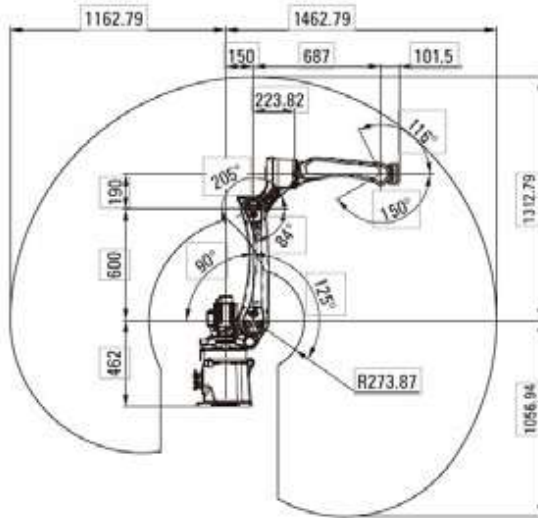
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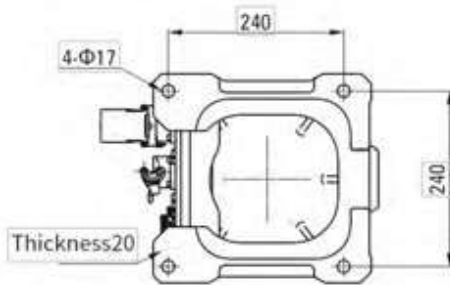
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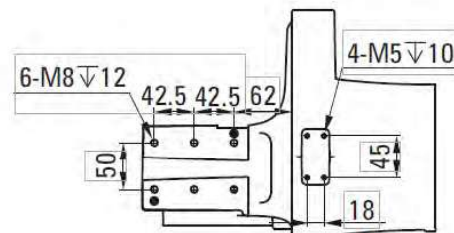
Work scope diagram ◀



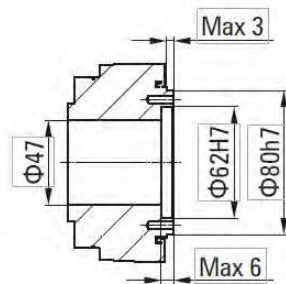
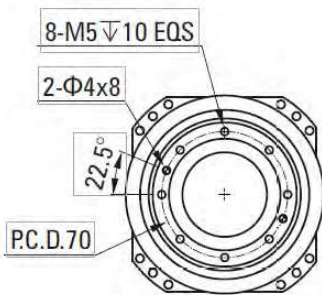
▶ Installation interface diagram



Fixed base



Fixed seat installation



End flange


**SPECIAL FOR WELDING**

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

Number of axis	6-axis		Maximum speed	Moving range
Motion radius	1463mm	J1 axis	200°/s	±180°
Max payload	12 KG	J2 axis	185°/s	-125°~+90°
Protection class	IP54/IP65	J3 axis	155°/s	-84°~+205°
Repeatability	±0.05mm	J4 axis	265°/s	±170°
Robot mass	116 KG	J5 axis	210°/s	-150°~+116°
Mounting position	Floor/ceiling	J6 axis	260°/s	±360°
J4 axis(kg.m <sup>2</sup> )	0.65	J4 axis(N.m)		22
J5 axis(kg.m <sup>2</sup> )	0.65	J5 axis(N.m)		22
J6 axis(kg.m <sup>2</sup> )	0.17	J6 axis(N.m)		9.8

# SPECIFICATIONS

## 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
Vibration	Below 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 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



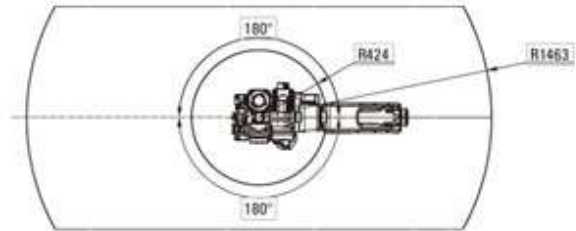
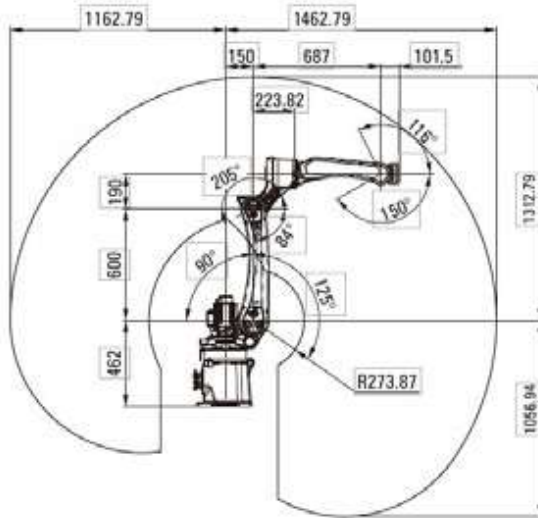
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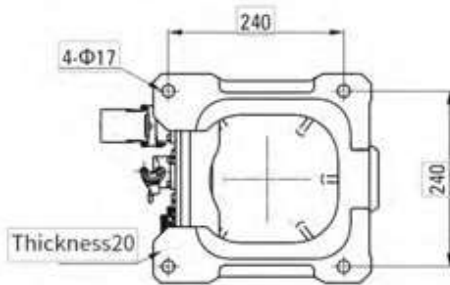
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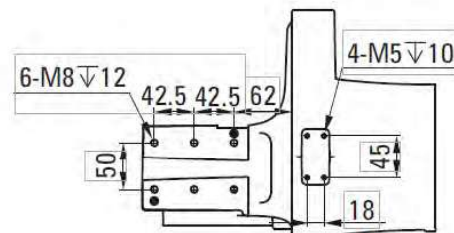
Work scope diagram ◀



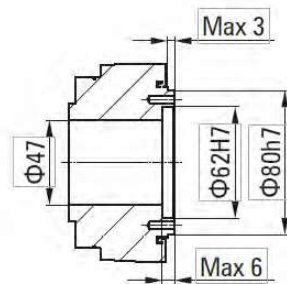
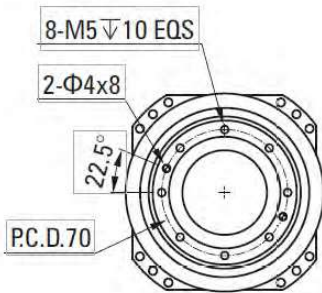
▶ Installation interface diagram



Fixed base



Fixed seat installation



End flange


**SPECIAL FOR HANDLING**

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

Number of axis	6-axis		Maximum speed	Moving range
Motion radius	1980mm	J1 axis	175°/s	±180°
Max payload	12 KG	J2 axis	120°/s	-125°~+90°
Protection class	IP54/IP65	J3 axis	180°/s	-86°~+202°
Repeatability	±0.08mm	J4 axis	265°/s	±170°
Robot mass	198 KG	J5 axis	210°/s	-150°~+116°
Mounting position	Floor/ceiling	J6 axis	260°/s	±360°
J4 axis(kg.m <sup>2</sup> )	0.65	J4 axis(N.m)		22
J5 axis(kg.m <sup>2</sup> )	0.65	J5 axis(N.m)		22
J6 axis(kg.m <sup>2</sup> )	0.17	J6 axis(N.m)		9.8



### 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
Vibration	Below 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 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



**ATTENTION**

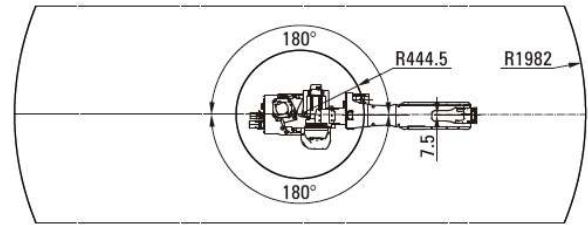
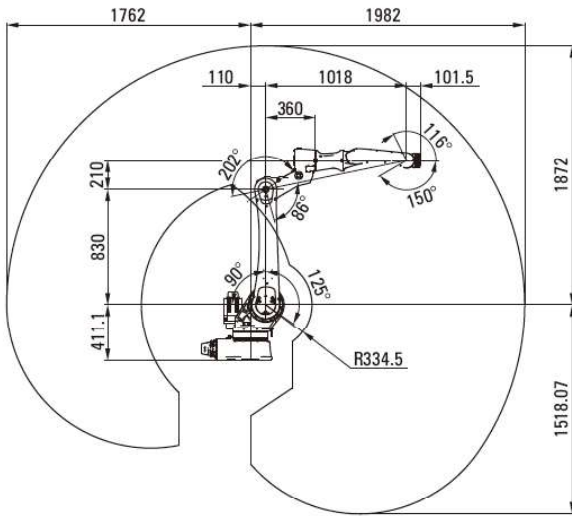
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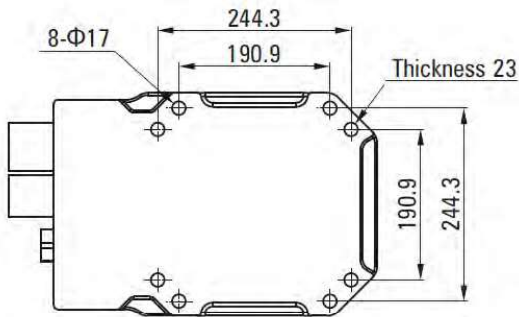
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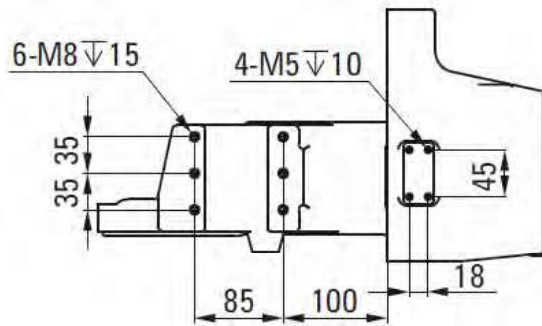
Work scope diagram ◀



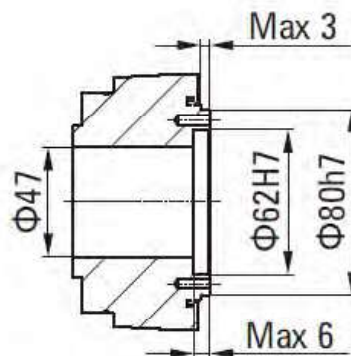
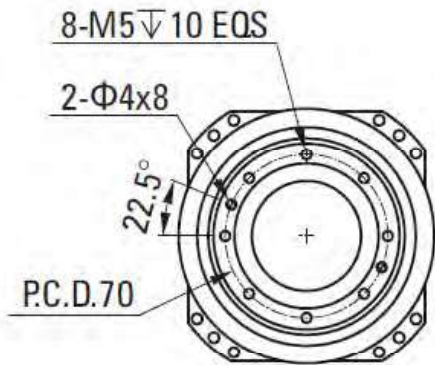
▶ Installation interface diagram



Fixed base



Fixed seat installation



End flange



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

Number of axis	6-axis		Maximum speed	Moving range
Motion radius	1980mm	J1 axis	175°/s	±180°
Max payload	12 KG	J2 axis	120°/s	-125°~+90°
Protection class	IP54/IP65	J3 axis	180°/s	-86°~+202°
Repeatability	±0.08mm	J4 axis	265°/s	±170°
Robot mass	198 KG	J5 axis	210°/s	-150°~+116°
Mounting position	Floor/ceiling	J6 axis	260°/s	±360°
J4 axis(kg.m <sup>2</sup> )	0.65	J4 axis(N.m)		22
J5 axis(kg.m <sup>2</sup> )	0.65	J5 axis(N.m)		22
J6 axis(kg.m <sup>2</sup> )	0.17	J6 axis(N.m)		9.8



### 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
Vibration	Below 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)
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**

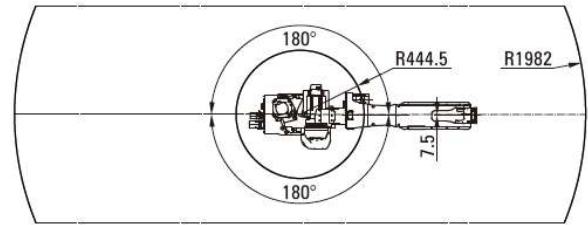
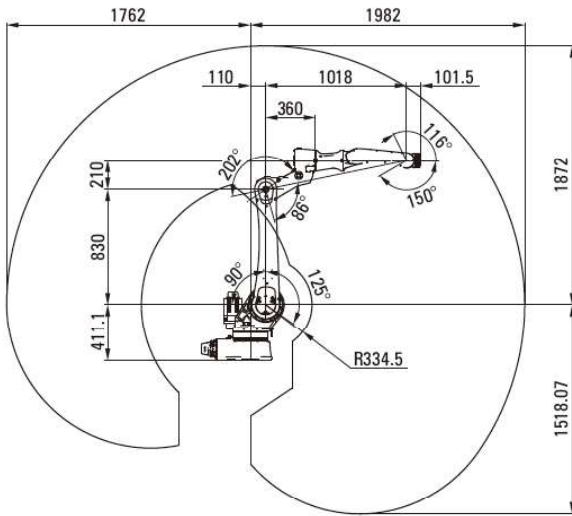
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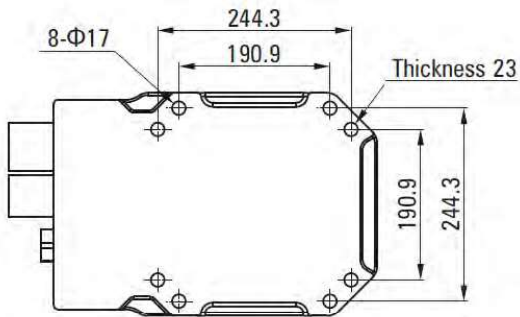
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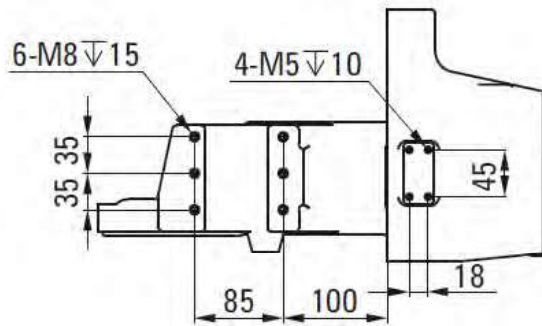
Work scope diagram ◀



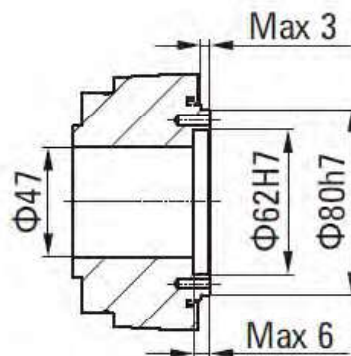
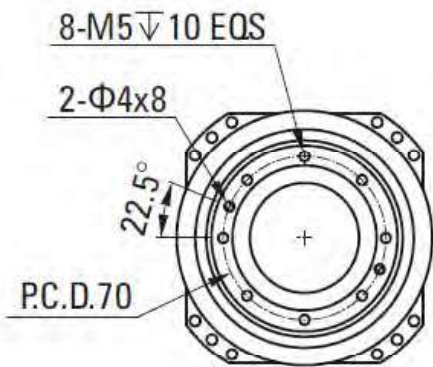
▶ Installation interface diagram



Fixed base



Fixed seat installation



End flange



Number of axis	6-axis		Maximum speed	Moving range
Motion radius	1808mm	J1 axis	175°/s	±180°
Max payload	25 KG	J2 axis	120°/s	-125°~+90°
Protection class	IP54/IP67	J3 axis	180°/s	-77°~+202°
Repeatability	±0.08mm	J4 axis	315°/s	±180°
Robot mass	191 KG	J5 axis	255°/s	±125°
Mounting position	Floor/ceiling	J6 axis	340°/s	±360°
J4 axis(kg.m <sup>2</sup> )	2.40	J4 axis(N.m)		52
J5 axis(kg.m <sup>2</sup> )	2.40	J5 axis(N.m)		52
J6 axis(kg.m <sup>2</sup> )	1.20	J6 axis(N.m)		32

## 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
Vibration	Below 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 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**

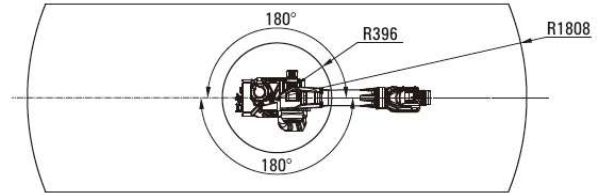
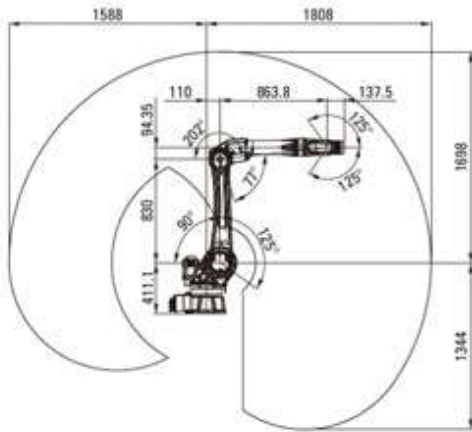
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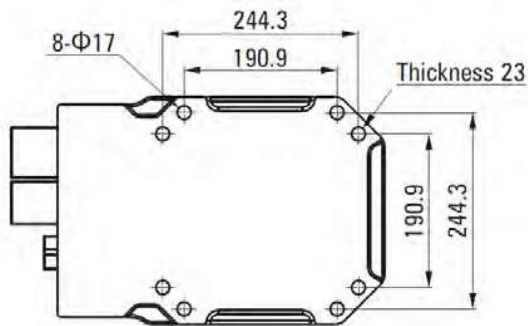
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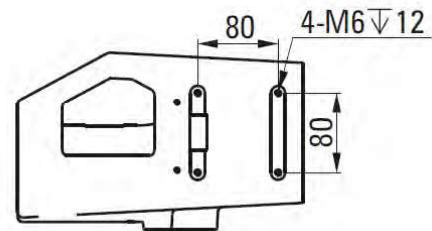
Work scope diagram ◀



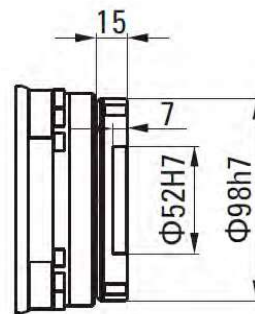
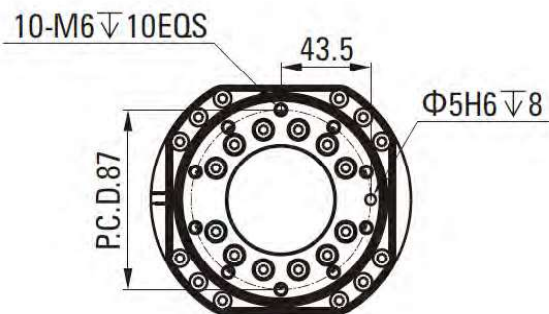
▶ Installation interface diagram



Fixed base



Fixed seat installation



End flange


**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	245°/s	±180°
Power capacity	4.5KVA	J2 axis L	210°/s	+90°~-170°
Max Payload	10KG	J3 axis U	250°/s	+160°~-92°
Protection class	IP65/IP67	J4 axis R	330°/s	±150°
Repeatability	±0.03mm	J5 axis B	460°/s	+90°~-135°
Robot mass	145KG	J6 axis T	700°/s	±360°
Built-in air tube	Φ8	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

# SPECIFICATIONS

## 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 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 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



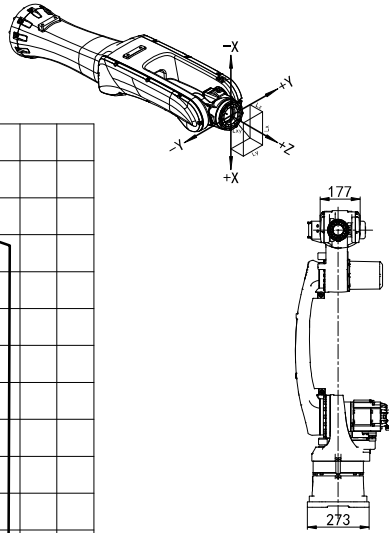
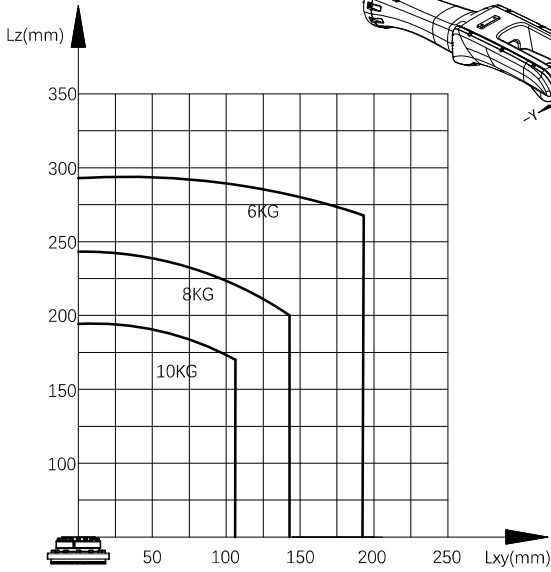
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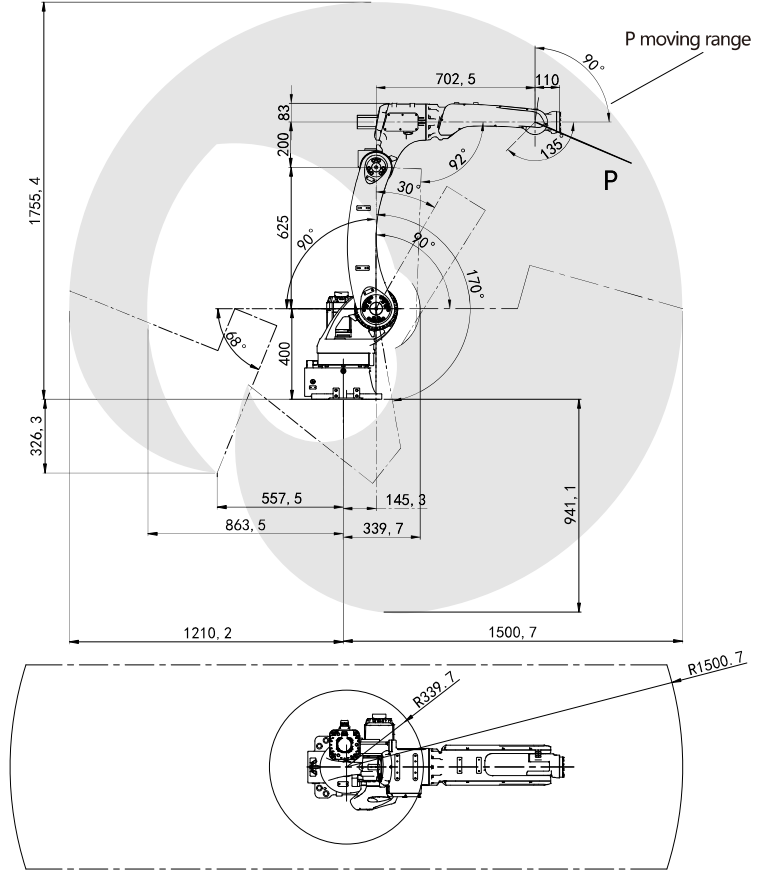


**Robot payload diagram**



**External dimensions and moving range**

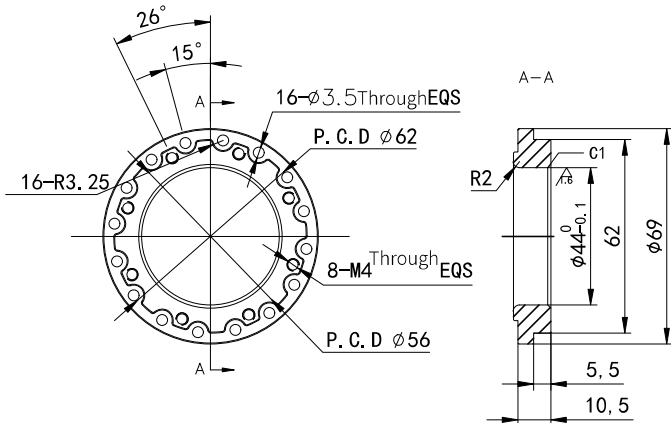
**P moving range**



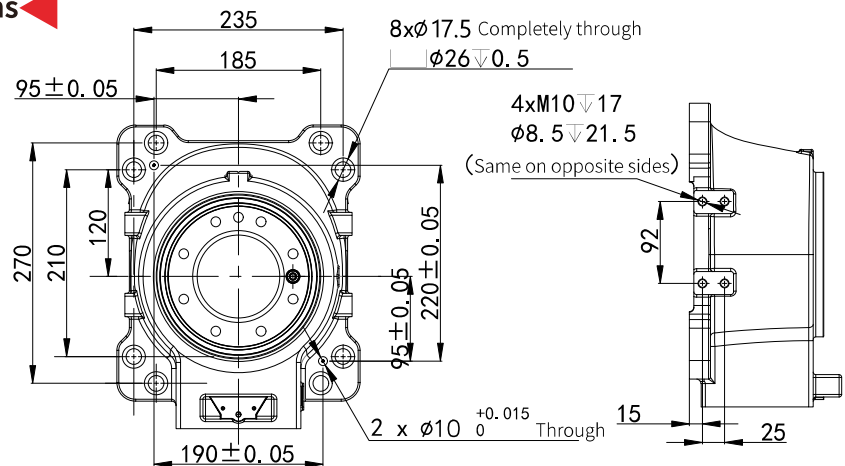
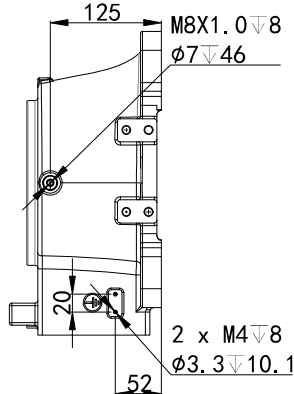
**10KG**  
Max payload

$\pm 0.03\text{mm}$   
Repeatability

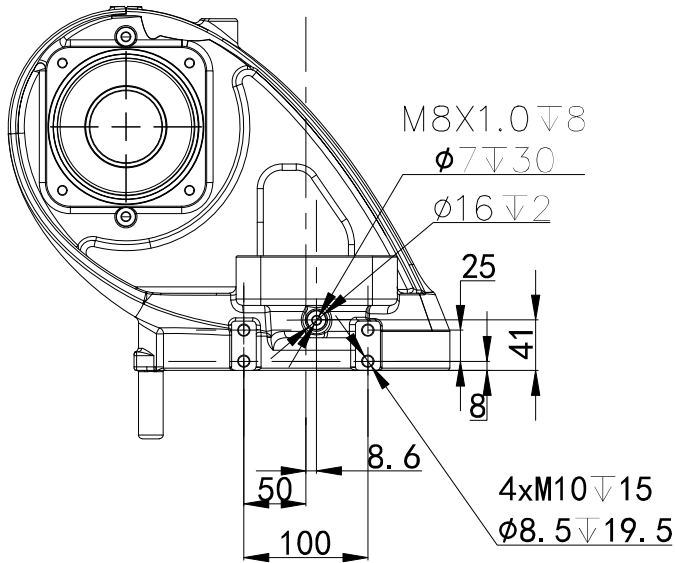
**1500mm**  
Moving range



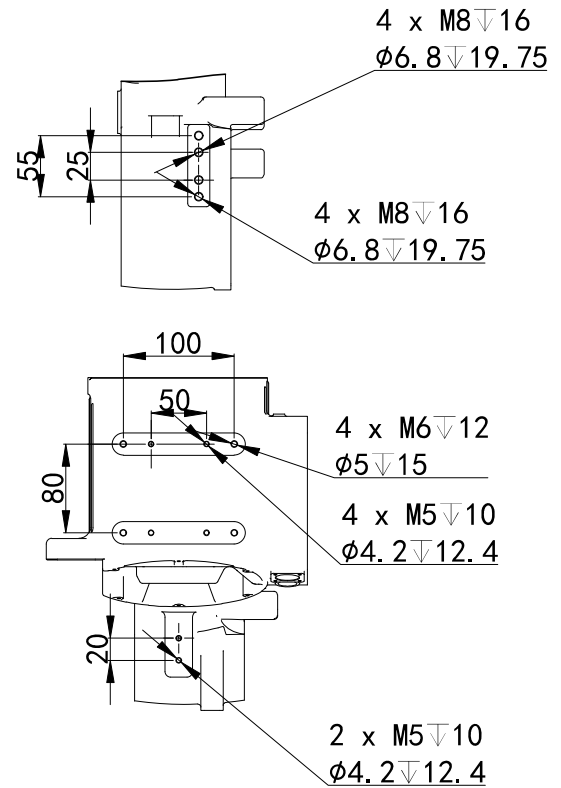
**End flange installation dimensions**



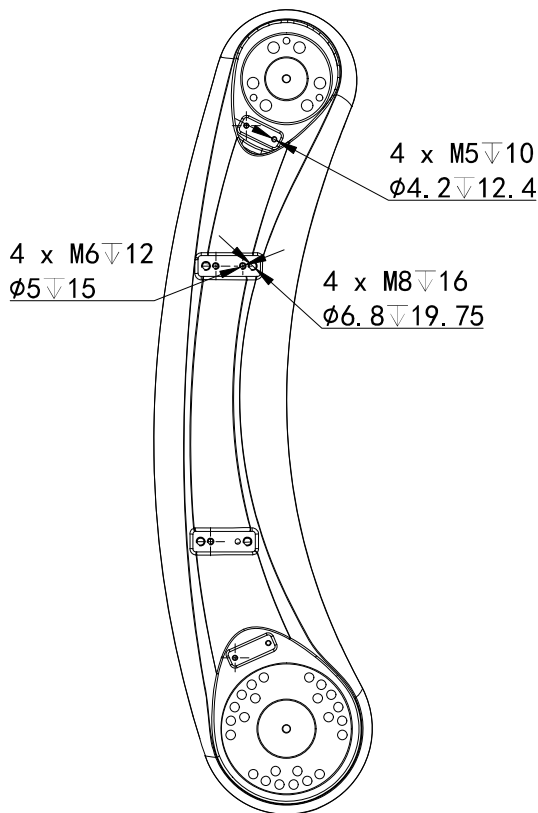
**Base installation dimensions**



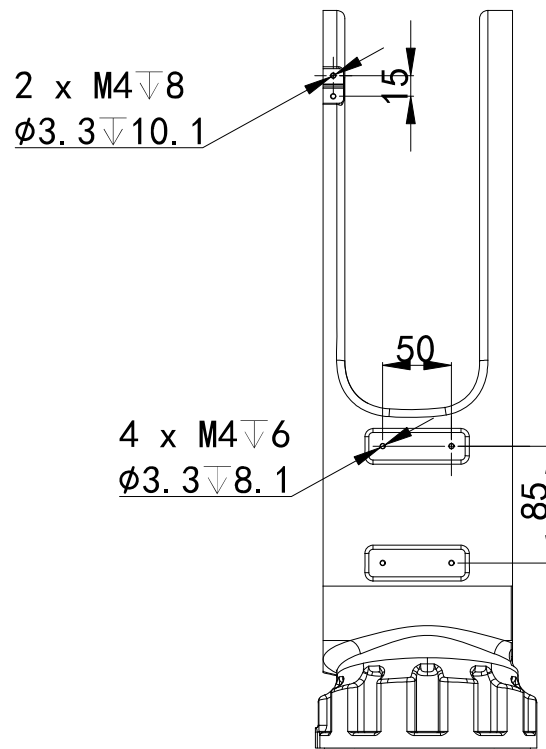
J2 transposition installation dimensions ◀



J4 motor seat installation dimensions ◀



J3 arm installation dimensions ◀



J5 wrist installation dimensions ◀


**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	±180°
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	±150°
Repeatability	±0.03mm	J5 axis B	460°/s	+90°~-135°
Robot mass	268KG	J6 axis T	700°/s	±360°
Built-in air tube	Φ10	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

# SPECIFICATIONS

## 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 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 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



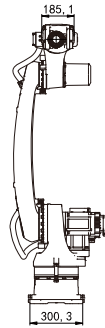
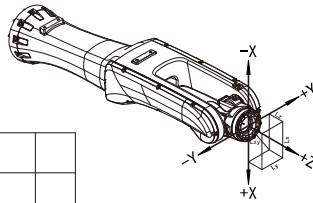
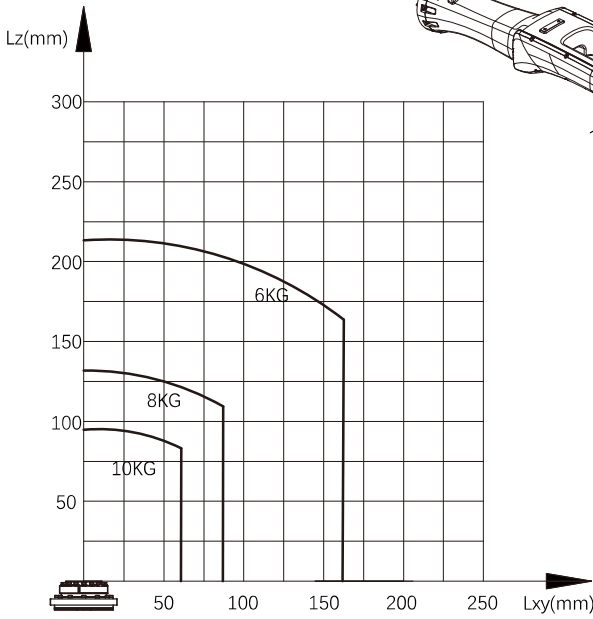
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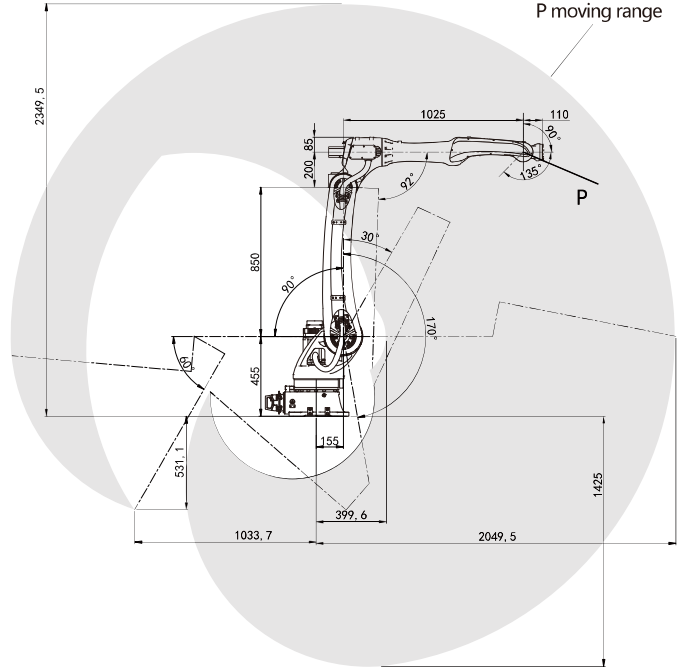


Robot payload diagram

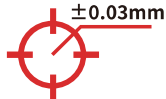


External dimensions and moving range

P moving range



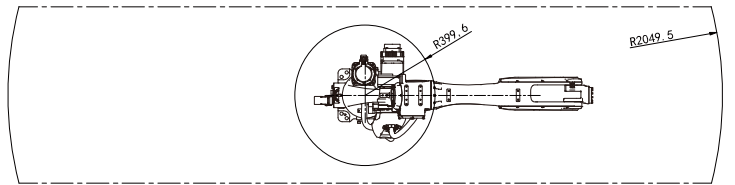
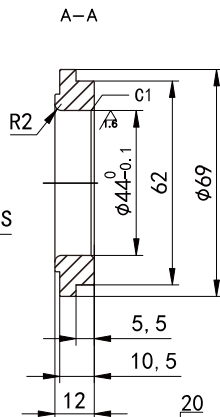
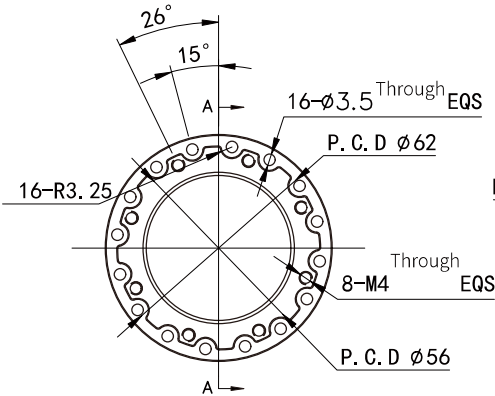
Max payload



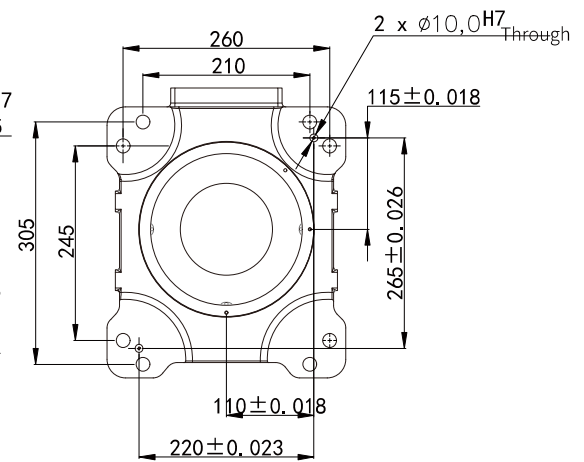
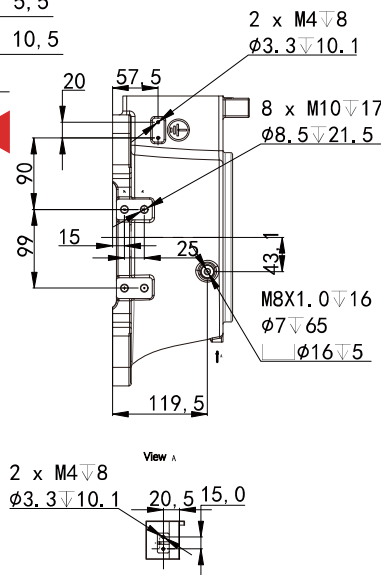
Repeatability



Moving range



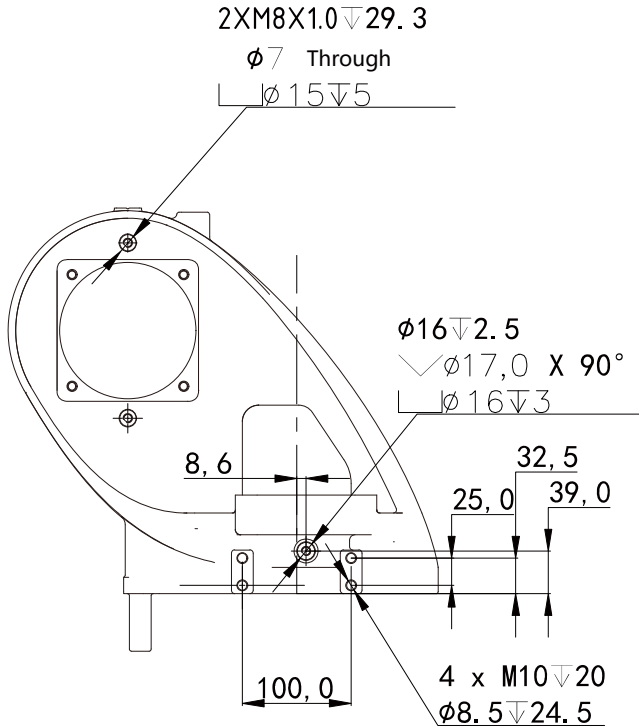
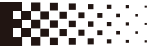
End flange installation dimensions



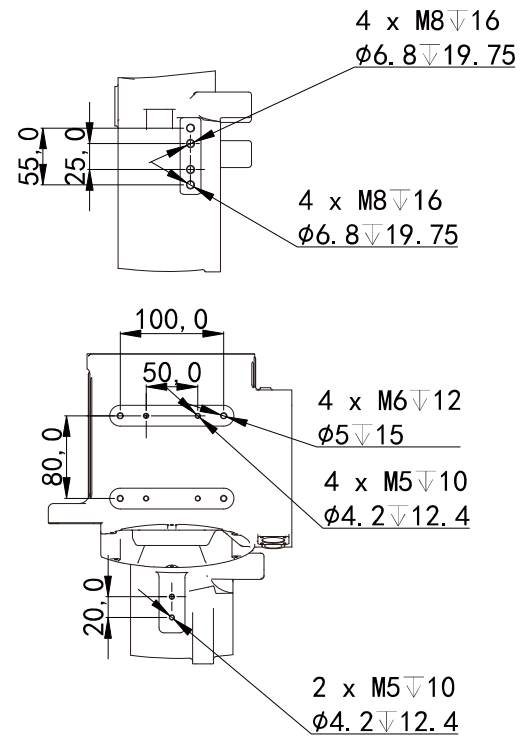
Base installation dimensions

**SPECIFICATIONS**

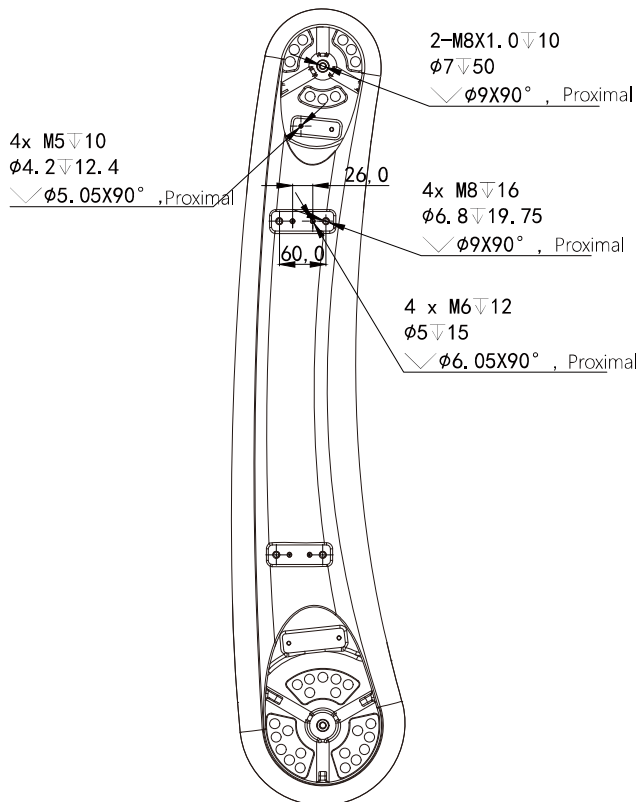
**TECHNICAL SPECIFICATION**



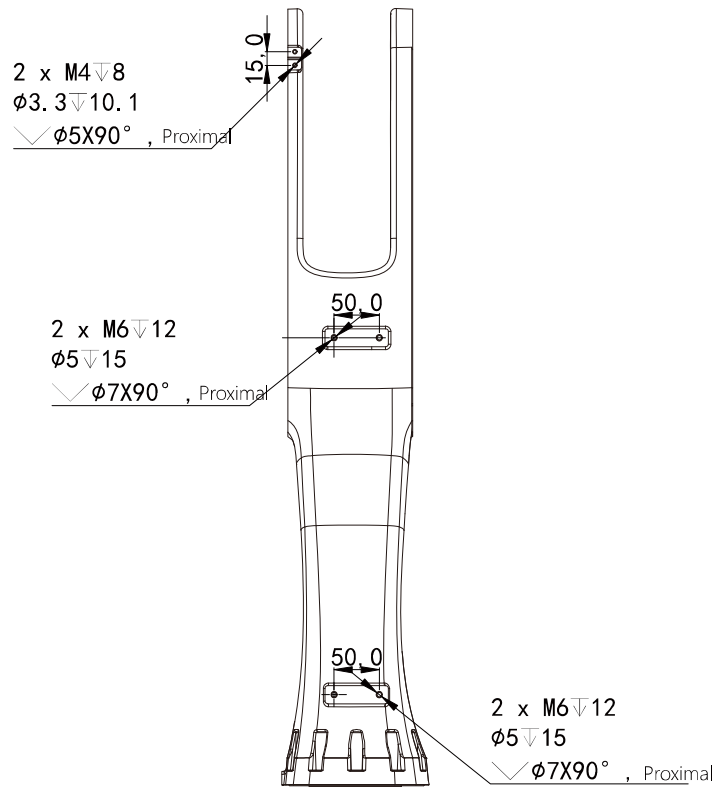
**J2 transposition installation dimensions** ◀



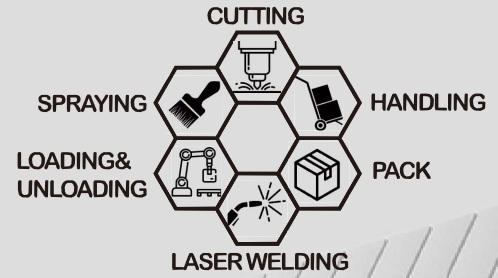
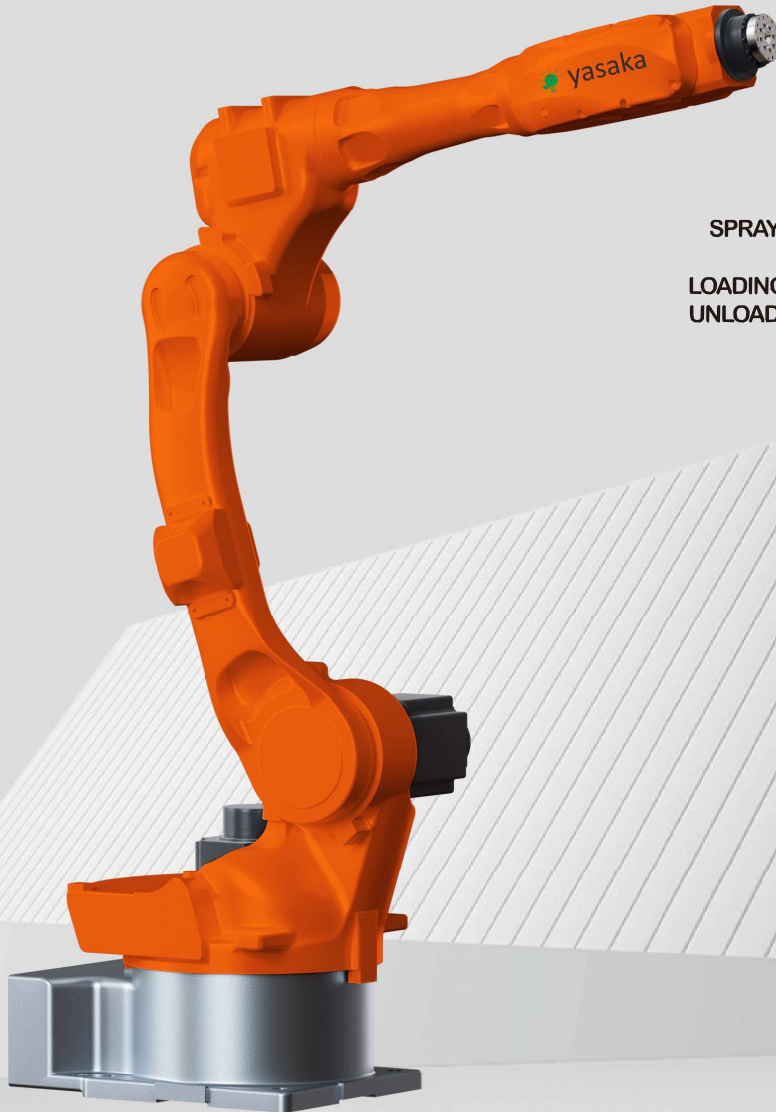
**J4 motor seat installation dimensions** ◀



**J3 arm installation dimensions** ◀



**J5 wrist installation dimensions** ◀



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



### Installation Environment

Temperature	0-45°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)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

#### Serial port I/F

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

#### Altitude

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

#### Others

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

### Teach pendent specifications

External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED,640*480 pixels
Protection class	IP54
Cable Length	Standard:6m Optional:8m/10m/15m

#### Manipulator

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



**ATTENTION**

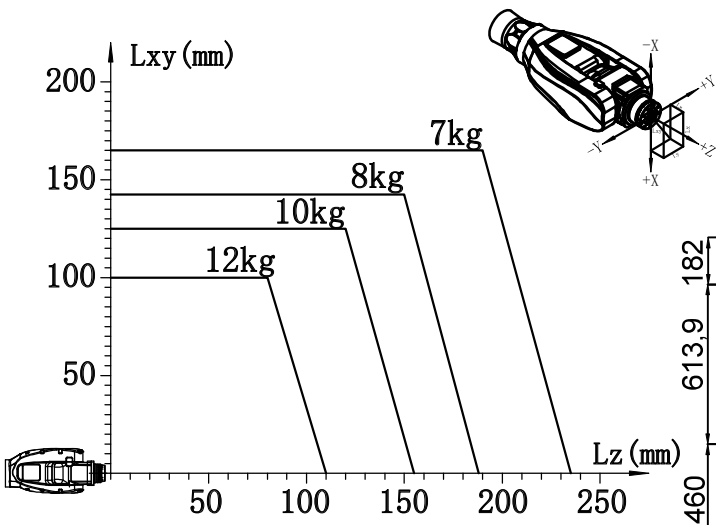
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# SPECIFICATIONS

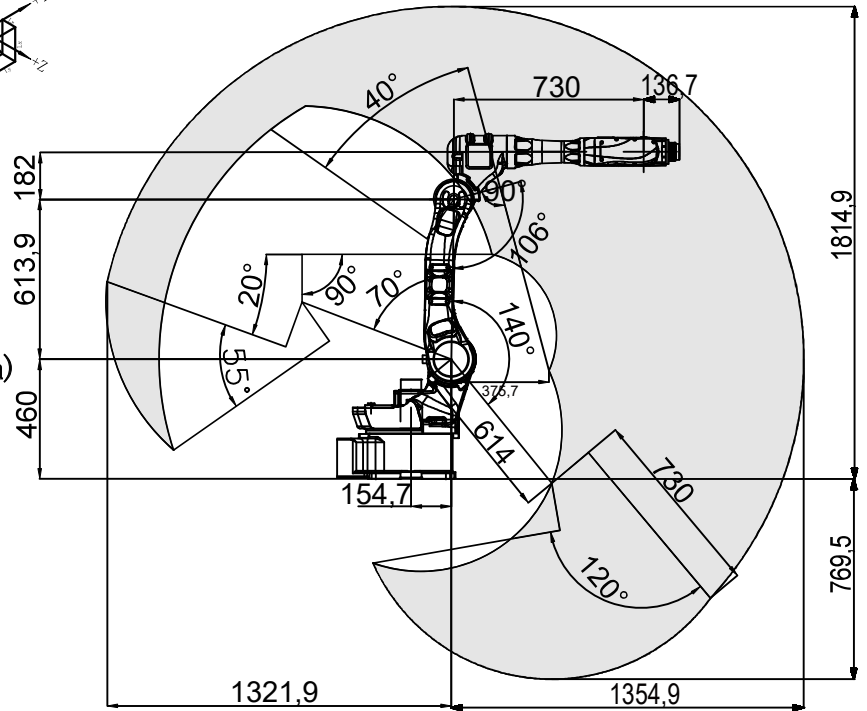
## TECHNICAL SPECIFICATION

Robot payload diagram

External dimensions and moving range



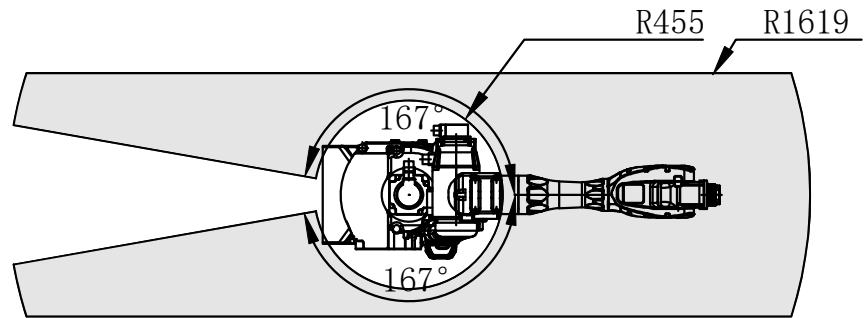
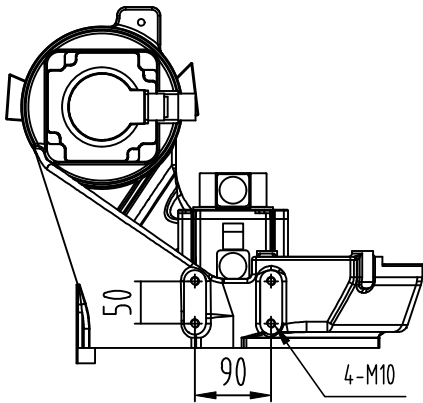
P moving range



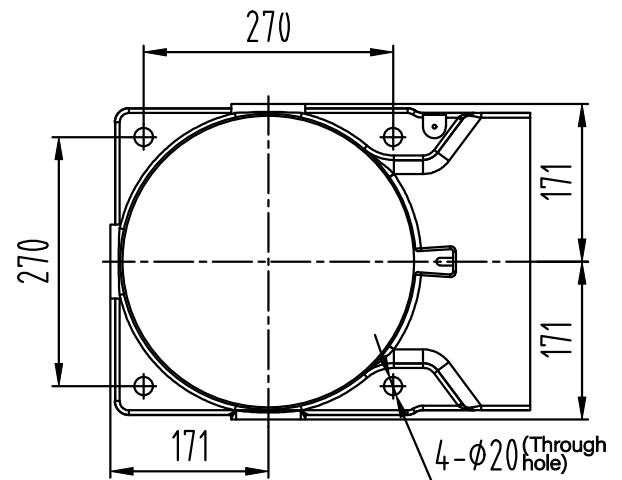
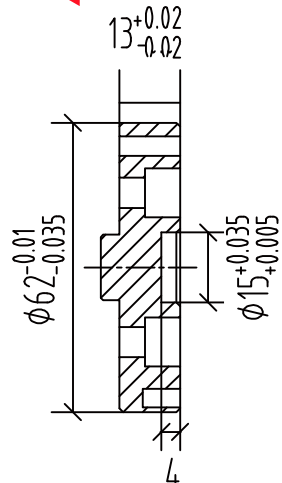
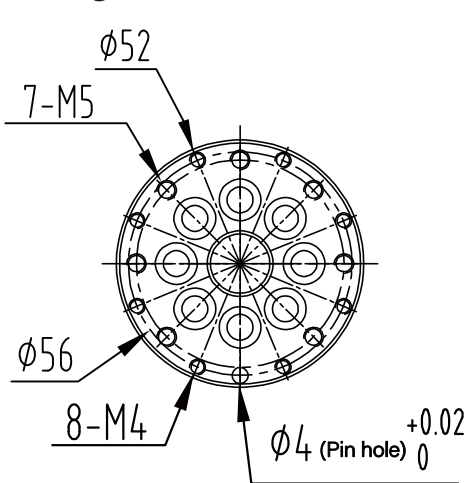
**12KG**  
Max payload

$\pm 0.05\text{mm}$   
Repeatability

1550mm  
Moving range

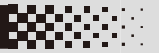


Turning base installation dimensions



End flange installation dimensions

Base installation dimensions



Number of axis	6-axis		Maximum speed	Moving range
Motion radius	2100mm	J1 axis S	202°/s	±180°
Power capacity	8.0KVA	J2 axis L	212°/s	+98°~-160°
Max Payload	20KG	J3 axis U	270°/s	+200°~-80°
Protection class	IP54/IP67	J4 axis R	470°/s	±200°
Repeatability	±0.03mm	J5 axis B	405°/s	+40°~-220°
Robot mass	264KG	J6 axis T	650°/s	±360°
Built-in air tube	Φ8	J4 axis R(N.m)		80
Input/Output signals	Standard 16 in/16 out 24 VDC	J5 axis B(N.m)		80
Mounting position	Floor/frame/ceiling	J6 axis T(N.m)		50



## Installation Environment

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

## Control cabinet specifications

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

Serial port I/F	RS485(1pc) RS422(1pc) RS232(1pc) CAN(1pc) USB(1pc)
-----------------	--

Altitude	Below 1000m. Derate 1% for every additional 100m if over 1000m. Maximum 2000m.
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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:6m Optional:8m/10m/15m

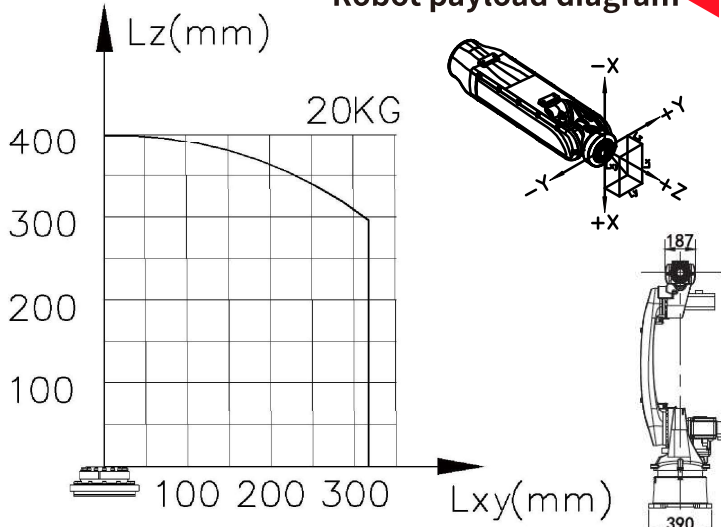
Manipulator	Selector, axis operation, value, mode selection with key (teach mode/auto mode/remote mode), emergency stop, enable, USB port etc
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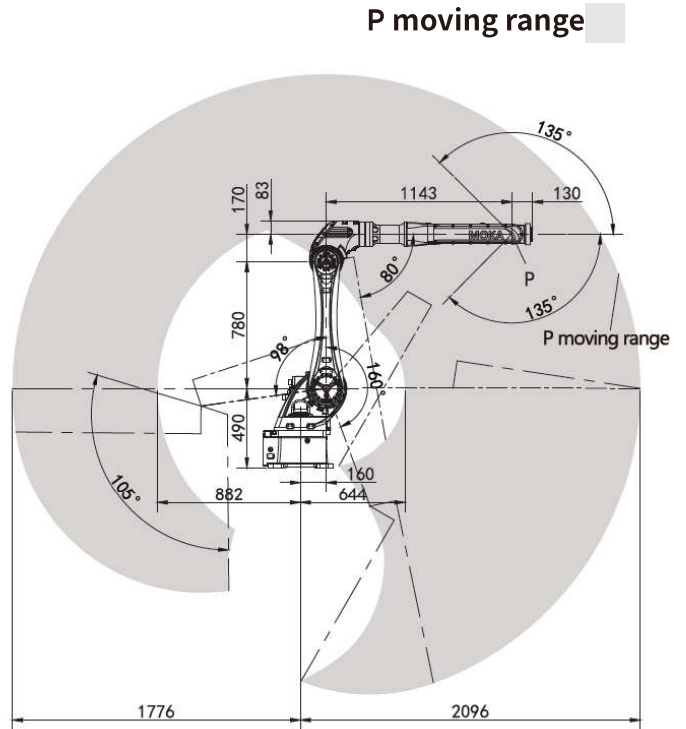
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### Robot payload diagram



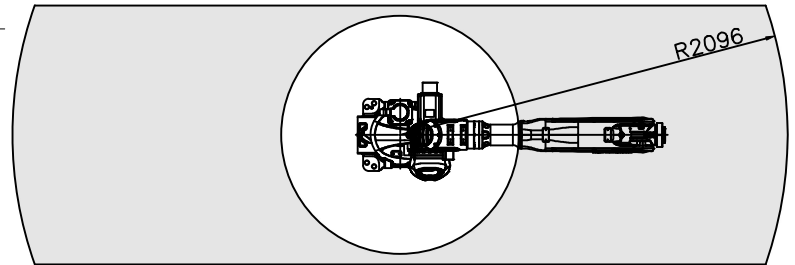
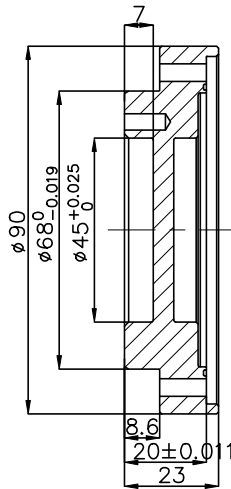
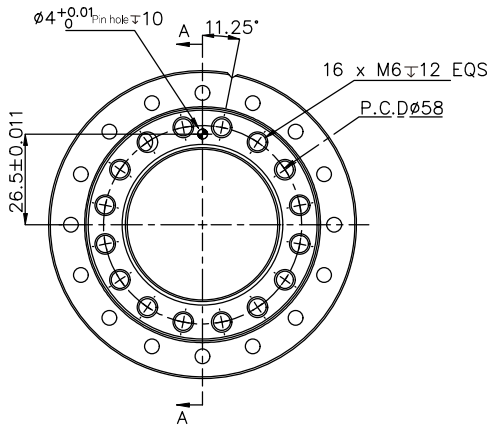
### External dimensions and moving range



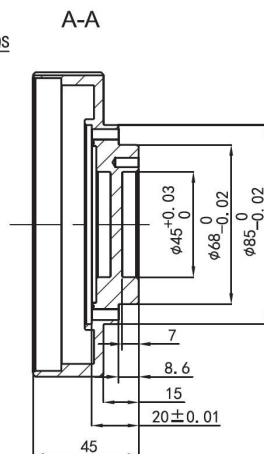
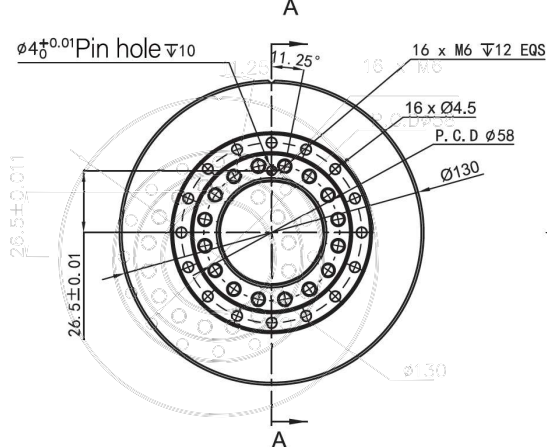
**20KG**  
Max payload

$\pm 0.03\text{mm}$   
Repeatability

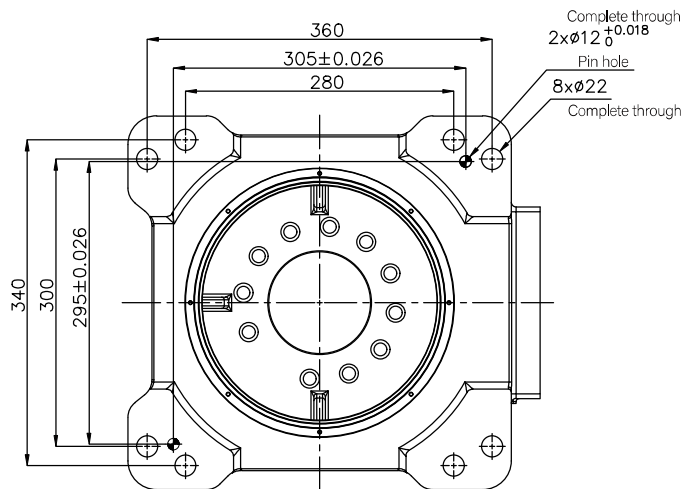
**2100mm**  
Moving range



### End flange installation dimensions



### End flange installation dimensions(Waterproof)

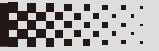


### Base installation dimensions

# YS35-1870

PAYLOAD: 35KG

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



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	+40°~-220°
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

MADE BY YASAKA

# SPECIFICATIONS

## TECHNICAL SPECIFICATION



### Installation Environment

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

### Control cabinet specifications

Overall dimension	700(width)*530(depth)*740(height)mm (with protrusions)
Rough quality	100KG
Cooling method	Natural cooling
Power specifications	3PH AC380V 50/60HZ (with built-in 380V~220V isolated transformer)
Grounding	Industrial grounding (dedicated grounding, resistance below100Ω)
Input/Output signal	General signal:16 input,16 output
Position control method	Serial communication EtherCAT.TCP/IP
Memory capacity	JOB: 200000 steps,10000 robot commands (total 200M)
LAN(Host link)	Ethercat(1pc) TCP/IP(1pc)
Control mode	Servo position control
Ambient temperature	In use:0~ + 45°C,In storage: - 20~ + 60°C
Driver unit	AC servo system (6-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

#### Serial port I/F

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

#### Altitude

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

#### Others

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

### Teach pendent specifications

External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED,640*480 pixels
Protection class	IP54
Cable Length	Standard:6m Optional:8m/10m/15m

#### Manipulator

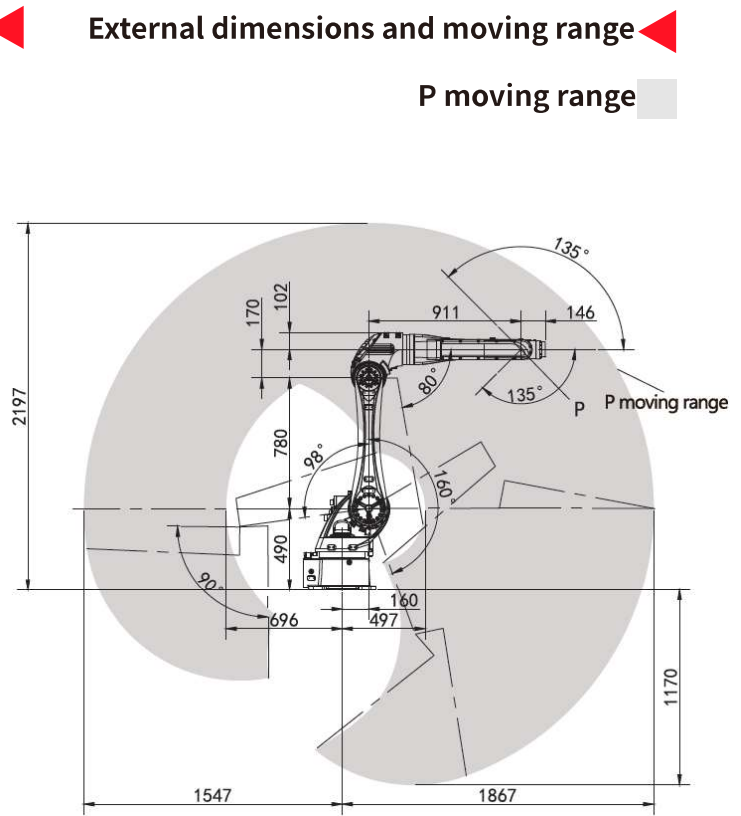
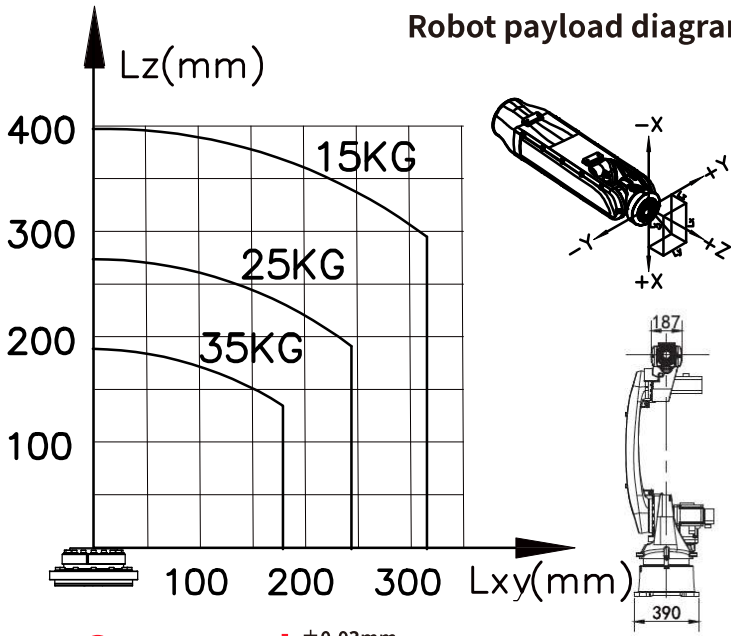
Selector, axis operation, value, mode selection with key (teach mode/auto mode/remote mode), emergency stop, enable, USB port etc



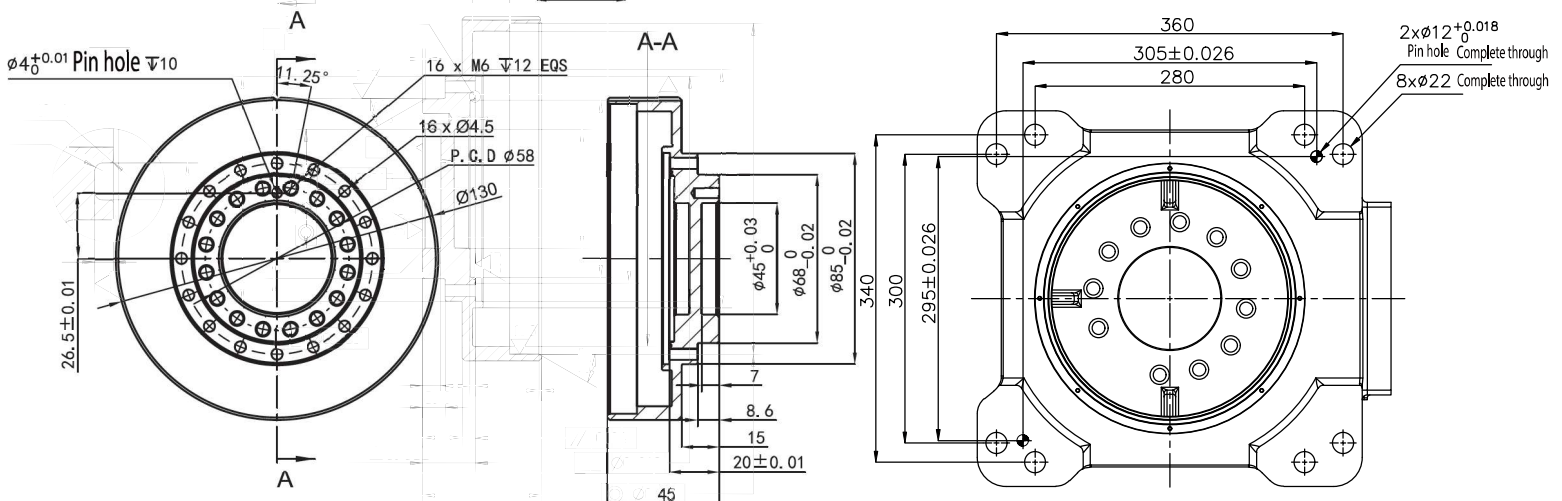
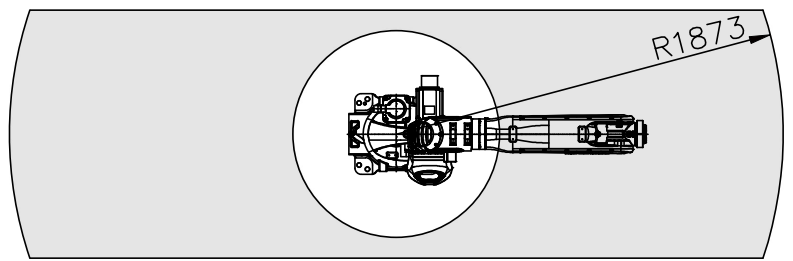
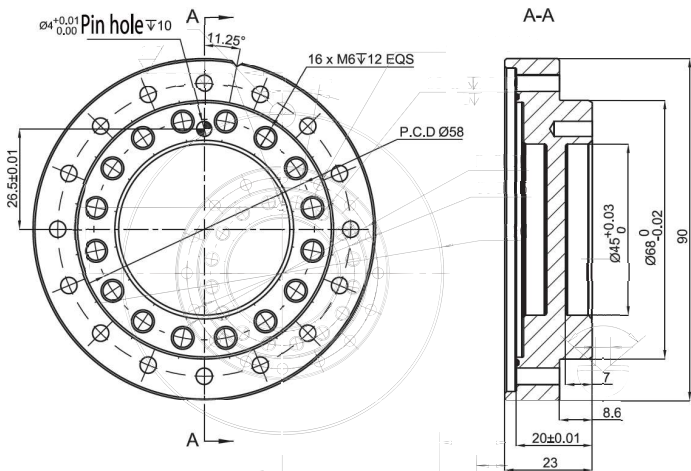
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- 35KG**  
Max payload
- $\pm 0.03\text{mm}$   
Repeatability
- 1870mm**  
Moving range



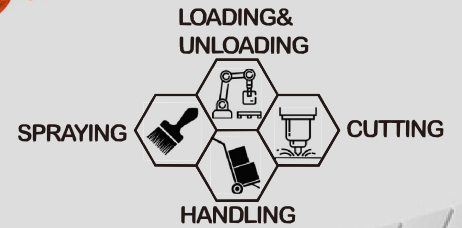
End flange installation dimensions (waterproof, only for polishing & die-casting applications)

Base installation dimensions

# YS45-1870

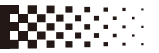
PAYLOAD :45KG

REPEATABILITY : ±0.03mm



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

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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 AC380V 50/60HZ (with built-in 380V~220V isolated transformer)
Grounding	Industrial grounding (dedicated grounding, resistance below 100Ω)
Input/Output signal	General signal: 16 input, 16 output
Position control method	Serial communication EtherCAT.TCP/IP
Memory capacity	JOB: 200000 steps, 10000 robot commands (total 200M)
LAN(Host link)	Ethercat(1pc) TCP/IP(1pc)
Control mode	Servo position control
Ambient temperature	In use: 0~ + 45°C, In storage: - 20~ + 60°C
Driver unit	AC servo system (6-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

### Serial port I/F

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

### Altitude

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

### Others

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

## Teach pendent specifications

External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED, 640*480 pixels
Protection class	IP54
Cable Length	Standard: 6m Optional: 8m/10m/15m

### Manipulator

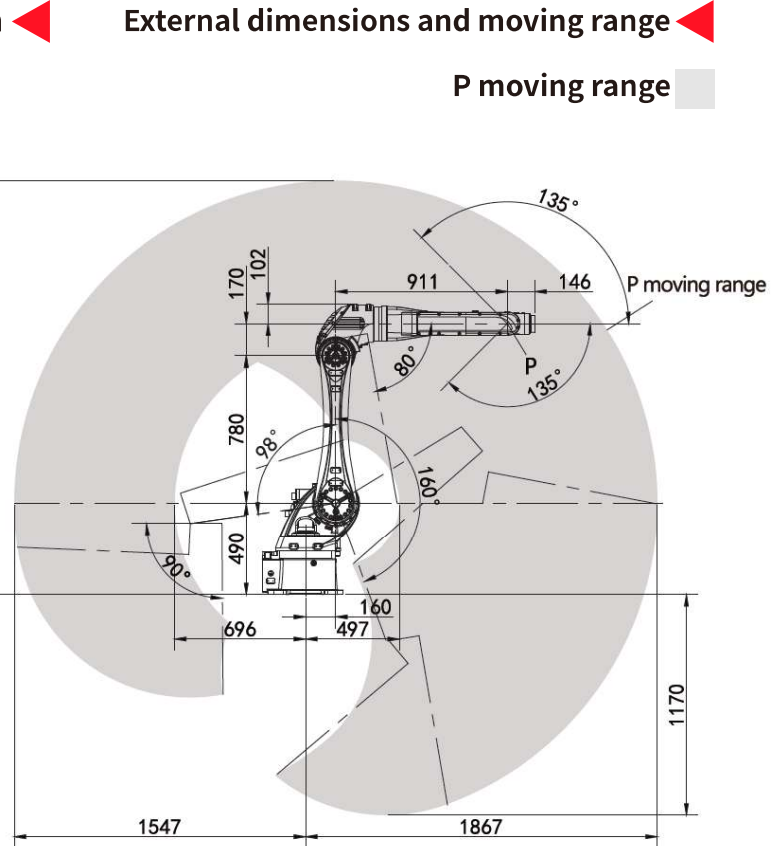
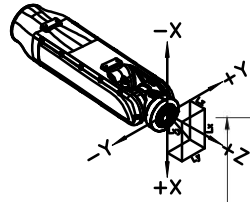
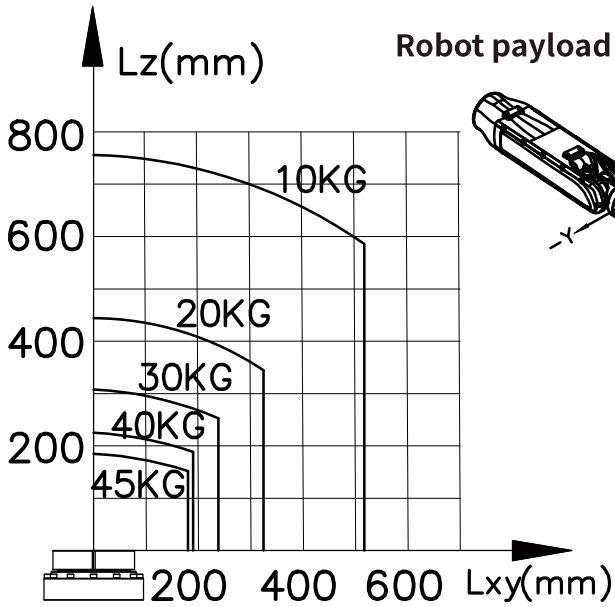
Selector, axis operation, value, mode selection with key (teach mode/auto mode/remote mode), emergency stop, enable, USB port etc


**ATTENTION**

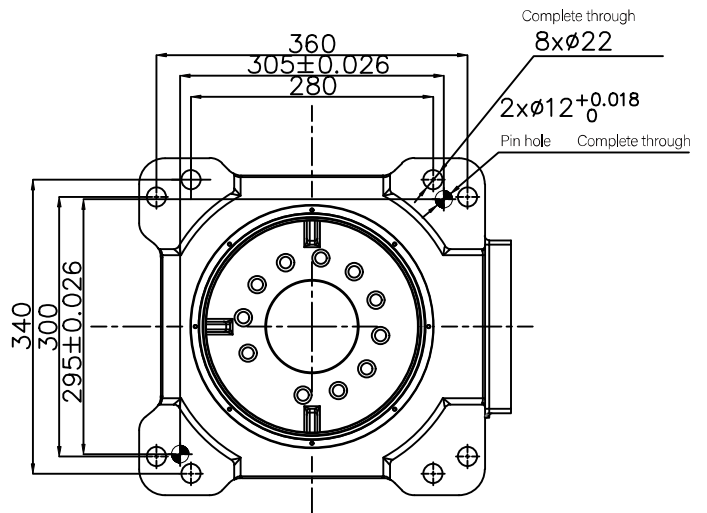
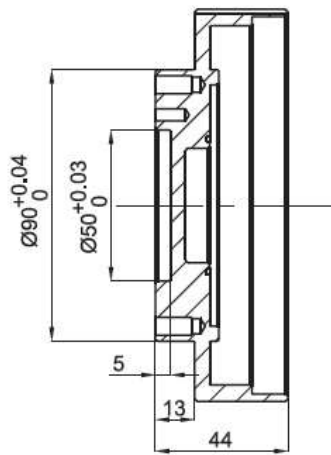
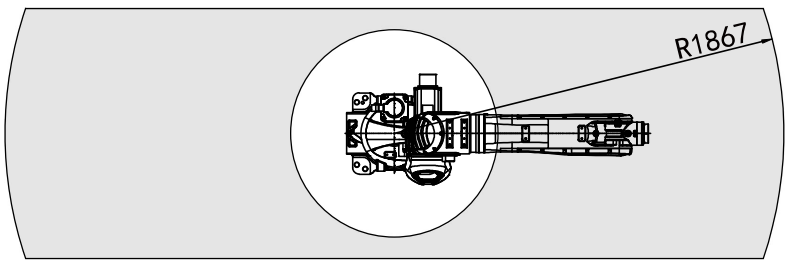
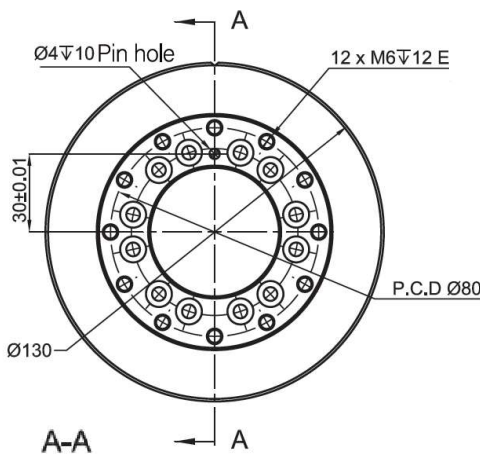
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- 45KG  
Max payload
- ±0.03mm  
Repeatability
- 1870mm  
Moving range



End flange installation dimensions

Base installation dimensions



Number of axis	6-axis		Maximum speed	Moving range
Motion radius	2650mm	J1 axis S	180°/s	±180°
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	±190°
Repeatability	±0.05mm	J5 axis B	260°/s	±125°
Robot mass	500KG	J6 axis T	370°/s	±360°
Built-in air tube	Φ8	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

# SPECIFICATIONS

## 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	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 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

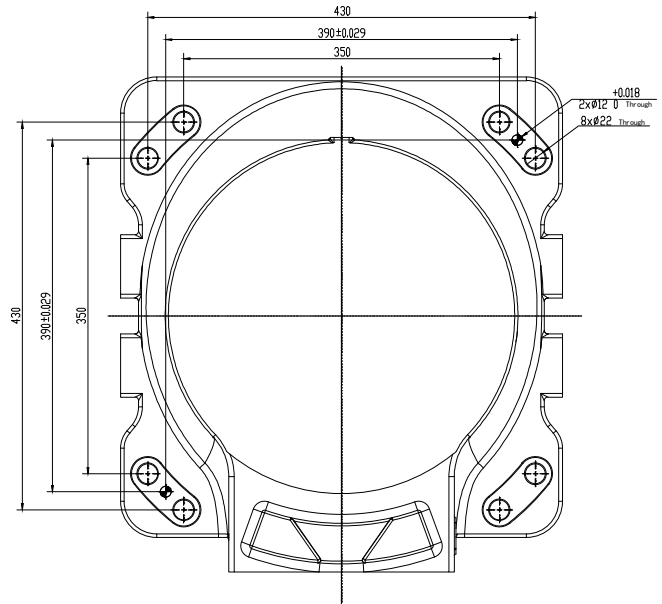
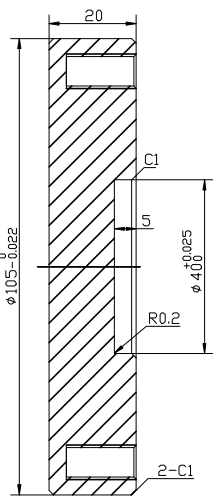
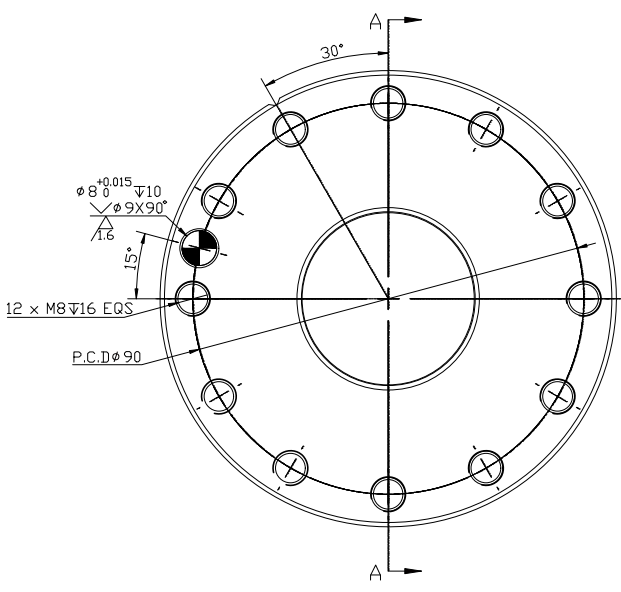
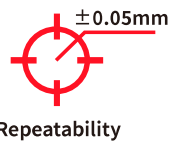
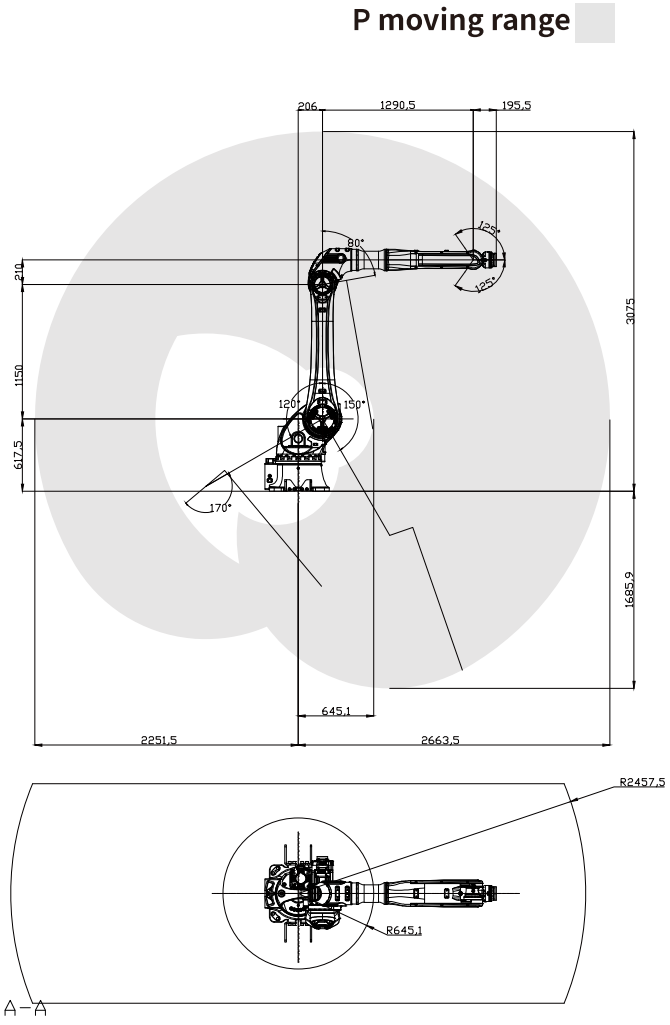
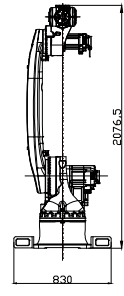
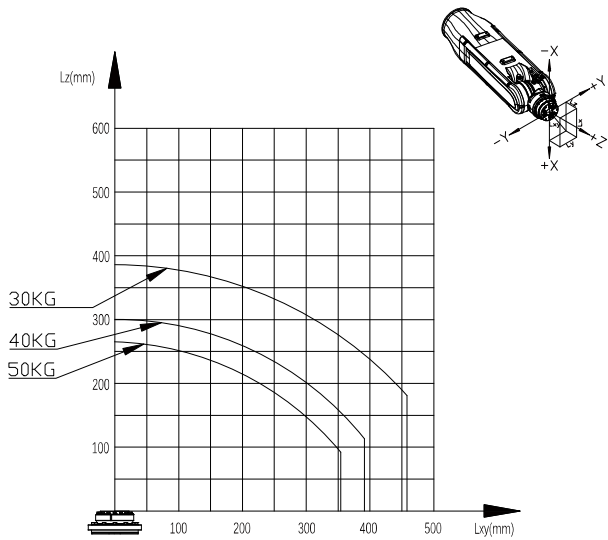
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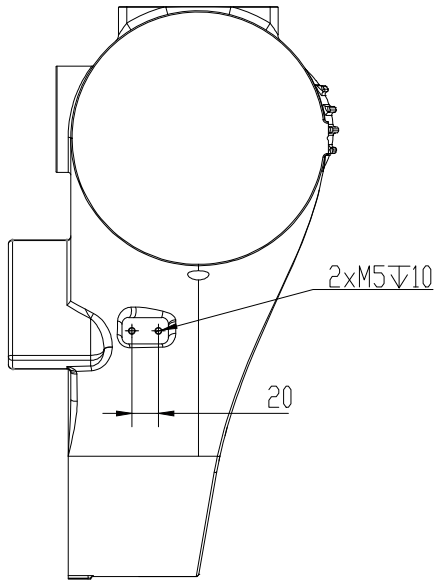
### Robot payload diagram

### External dimensions and moving range

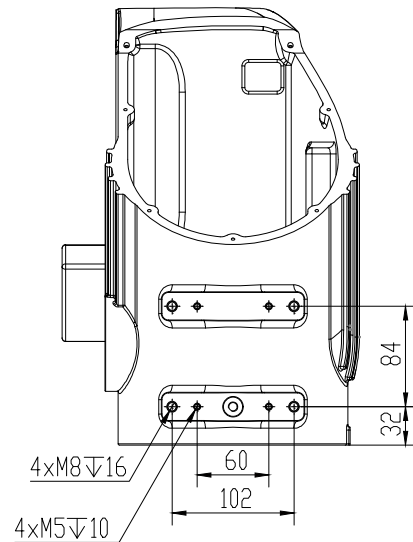


### End flange installation dimensions

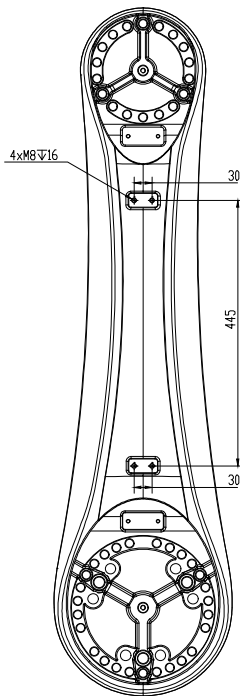
### Base installation dimensions



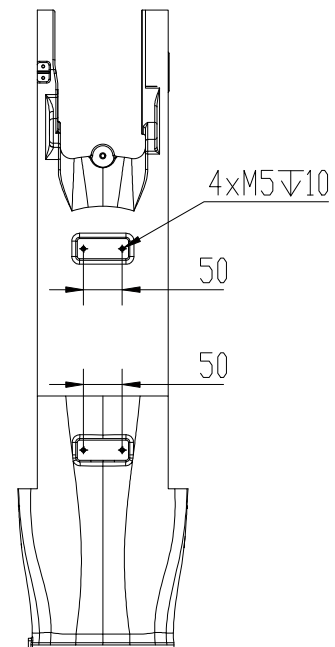
**J2 transposition installation dimensions** ◀



**J4 motor seat installation dimensions** ◀



**J3 arm installation dimensions** ◀



**J5 wrist installation dimensions** ◀

# YS70-2150

**PAYLOAD :70KG**

**REPEATABILITY : ±0.05mm**



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

# SPECIFICATIONS

## 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	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 (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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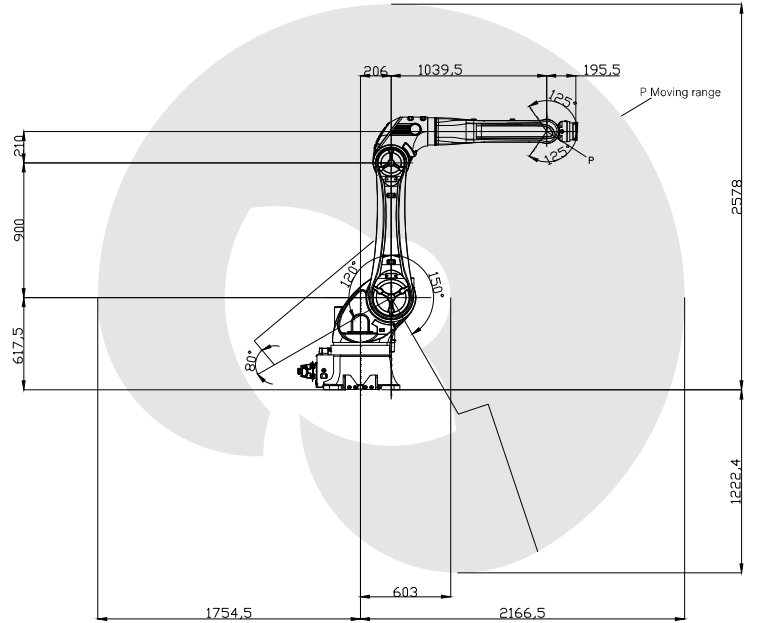
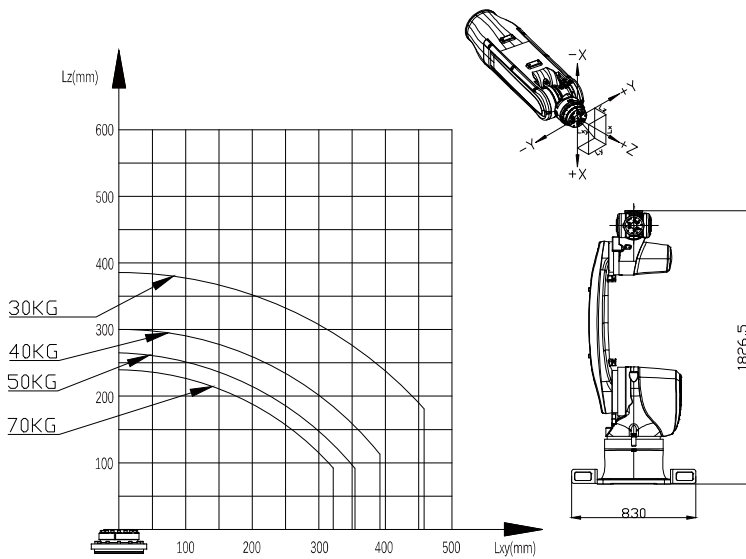
# SPECIFICATIONS

## TECHNICAL SPECIFICATION

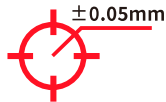
### Robot payload diagram

### External dimensions and moving range

#### P moving range



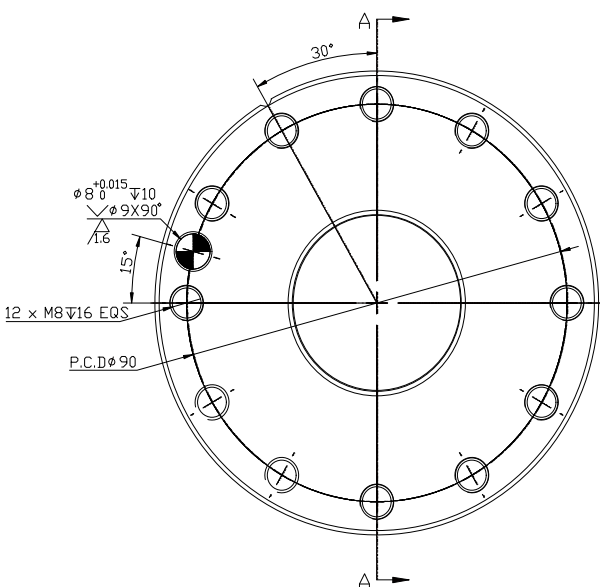
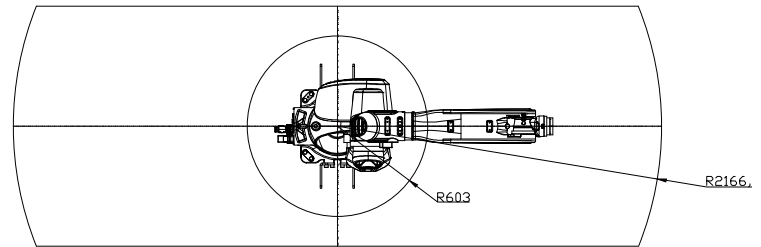
Max payload



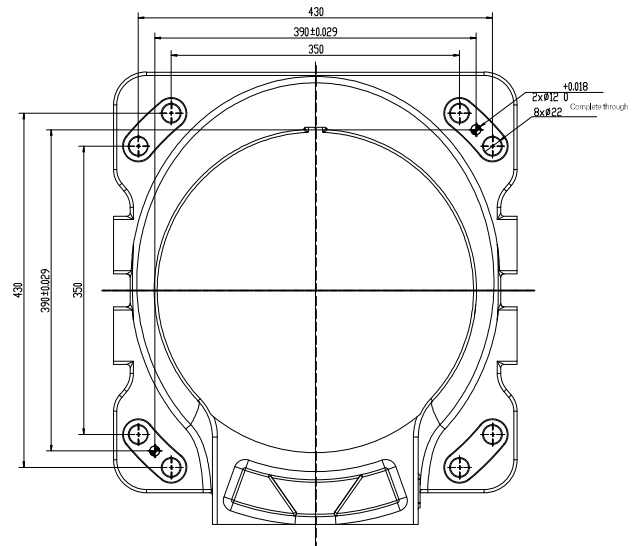
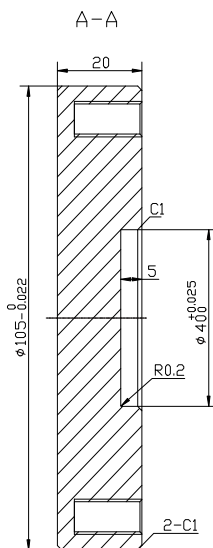
Repeatability



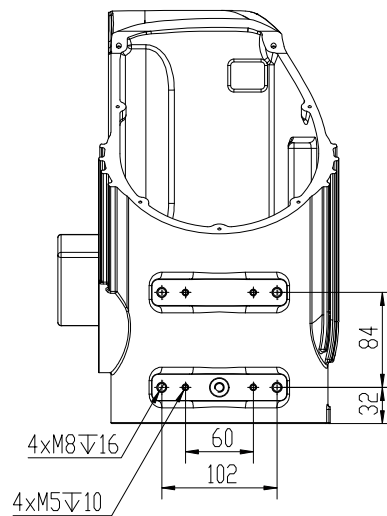
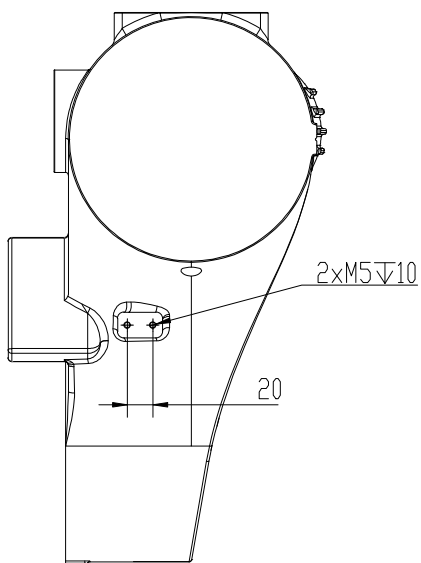
Moving range



### End flange installation dimensions

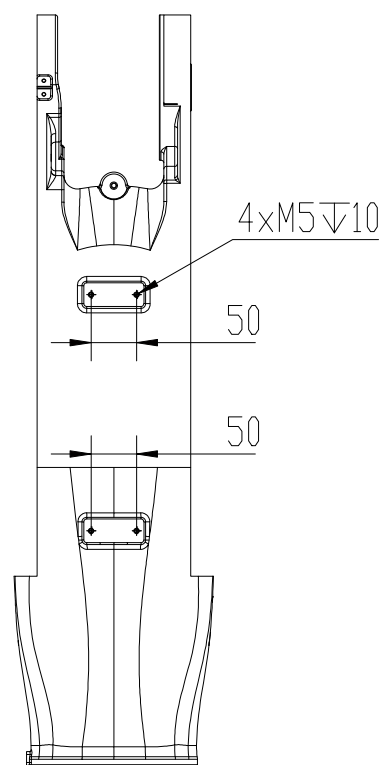
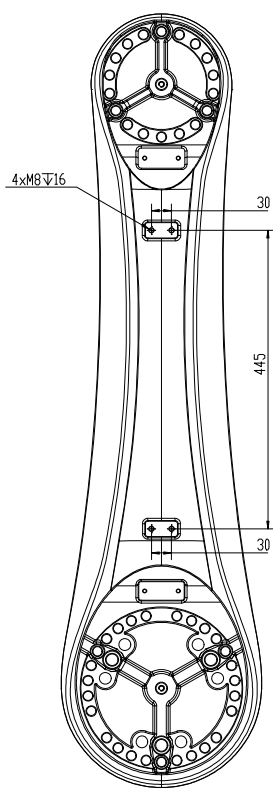


### Base installation dimensions



**J2 transposition installation dimensions**

**J4 motor seat installation dimensions**



**J3 arm installation dimensions**

**J5 wrist installation dimensions**



Number of axis	6-axis		Maximum speed	Moving range
Motion radius	2250mm	J1 axis S	216°/s	$\pm 165^\circ$
Power capacity	19.0KVA	J2 axis L	150°/s	+90°~-120°
Max Payload	80KG	J3 axis U	175°/s	+140°~-70°
Protection class	IP56/IP67	J4 axis R	378°/s	$\pm 190^\circ$
Repeatability	$\pm 0.08\text{mm}$	J5 axis B	286°/s	+30°~-210°
Robot mass	678KG	J6 axis T	370/s	$\pm 360^\circ$
Built-in air tube	$\phi 8/\phi 10$	J4 axis R(N.m)		210
Input/Output signals	Standard 16 in/16 out 24 VDC	J5 axis B(N.m)		210
Mounting position	Floor/frame/ceiling	J6 axis T(N.m)		130



### Installation Environment

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

### Control cabinet specifications

Overall dimension	850(width)*550(depth)*920(height)mm (with protrusions)
Approximate mass	170KG
Cooling method	Natural cooling
Power specifications	3PH AC380V 50/60HZ (with built-in 380V~220V isolated transformer)
Grounding	Industrial grounding (dedicated grounding, resistance below 100Ω)
Input/Output signal	General signal: 16 input, 16 output
Position control method	Serial communication EtherCAT.TCP/IP
Memory capacity	JOB: 200000 steps, 10000 robot commands (total 200M)
LAN(Host link)	Ethercat(1pc) TCP/IP(1pc)
Control mode	Servo position control
Ambient temperature	In use: 0~ + 45°C, In storage: - 20~ + 60°C
Driver unit	AC servo system (6-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

#### Serial port I/F

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

#### Altitude

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

#### Others

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

### Teach pendent specifications

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

#### Manipulator

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



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# YS180-3200

PAYLOAD : 180KG

REPEATABILITY :  $\pm 0.06\text{mm}$



Number of axis	6-axis	Maximum speed	Moving range
Motion radius	3200mm	J1 axis S	$\pm 180^\circ$
Power capacity	25.0KVA	J2 axis L	$+60^\circ \sim -180^\circ$
Max Payload	180KG	J3 axis U	$+95^\circ \sim -80^\circ$
Protection class	IP54/IP67	J4 axis R	$\pm 210^\circ$
Repeatability	$\pm 0.06\text{mm}$	J5 axis B	$\pm 125^\circ$
Robot mass	1300KG	J6 axis T	$\pm 360^\circ$
Built-in air tube	$\Phi 10$	J4 axis R(N.m)	1134
Input/Output signals	Standard 16 in/16 out 24 VDC	J5 axis B(N.m)	1134
Mounting position	Floor	J6 axis T(N.m)	735

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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	873(width)*600(depth)*940(height)mm (with protrusions)
Approximate mass	170KG
Cooling method	Natural cooling
Power specifications	3PH AC380V 50/60HZ
Grounding	Industrial grounding (dedicated grounding, resistance below 100Ω)
Input/Output signal	General signal: 16 input, 16 output
Position control method	Serial communication EtherCAT.TCP/IP
Memory capacity	JOB: 200000 steps, 10000 robot commands (total 200M)
LAN(Host link)	Ethercat(1pc) TCP/IP(1pc)
Control mode	Servo position control
Ambient temperature	In use: 0~ + 45°C, In storage: - 20~ + 60°C
Driver unit	AC servo system (6-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

#### Serial port I/F

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

#### Altitude

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

#### Others

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

### Teach pendant specifications

External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED, 640*480 pixels
Protection class	IP54
Cable Length	Standard: 6m Optional: 8m/10m/15m

#### Manipulator

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



**ATTENTION**

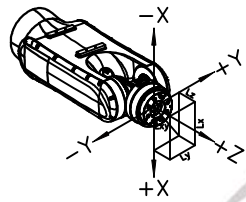
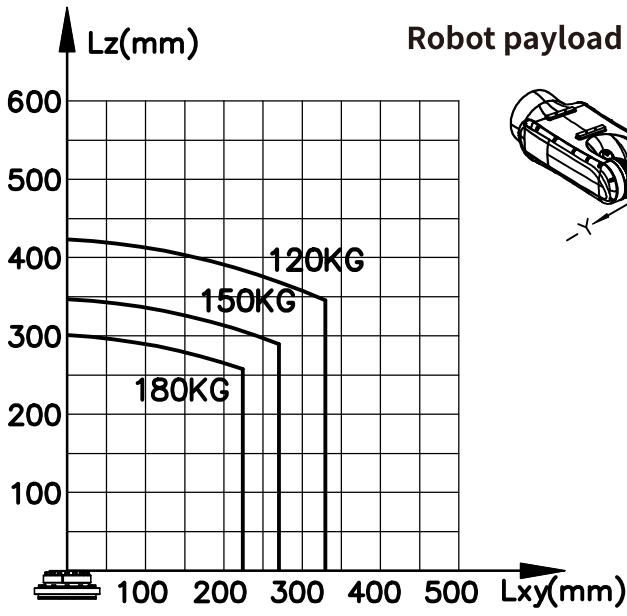
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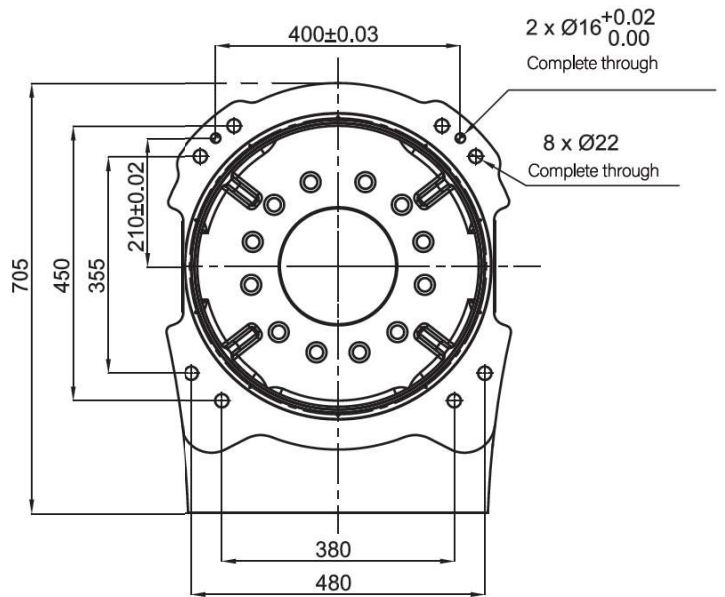
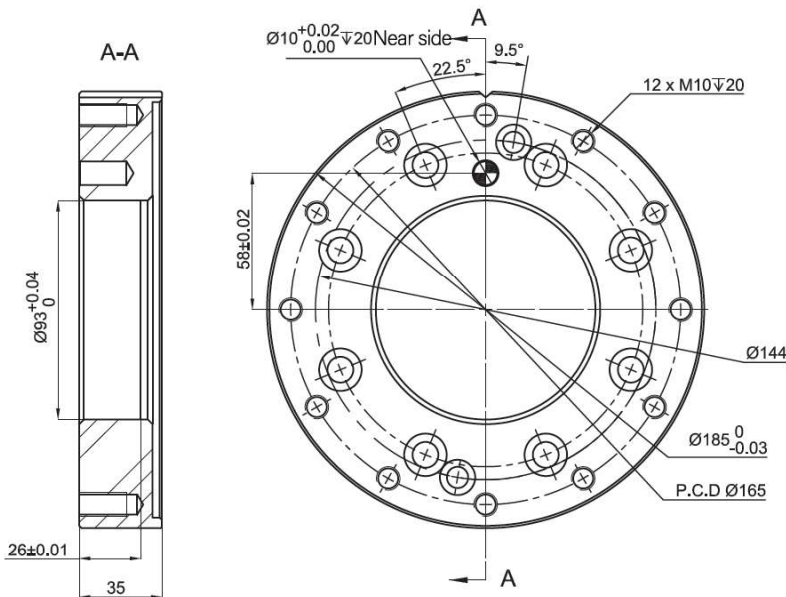
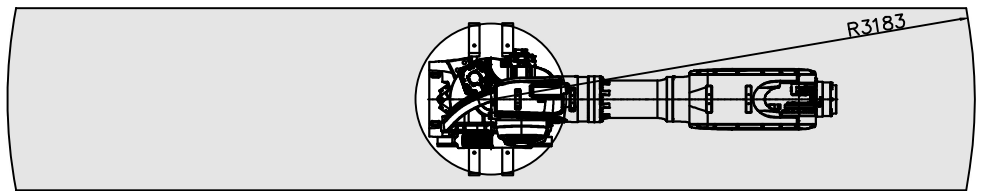
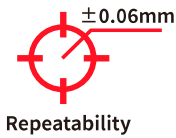
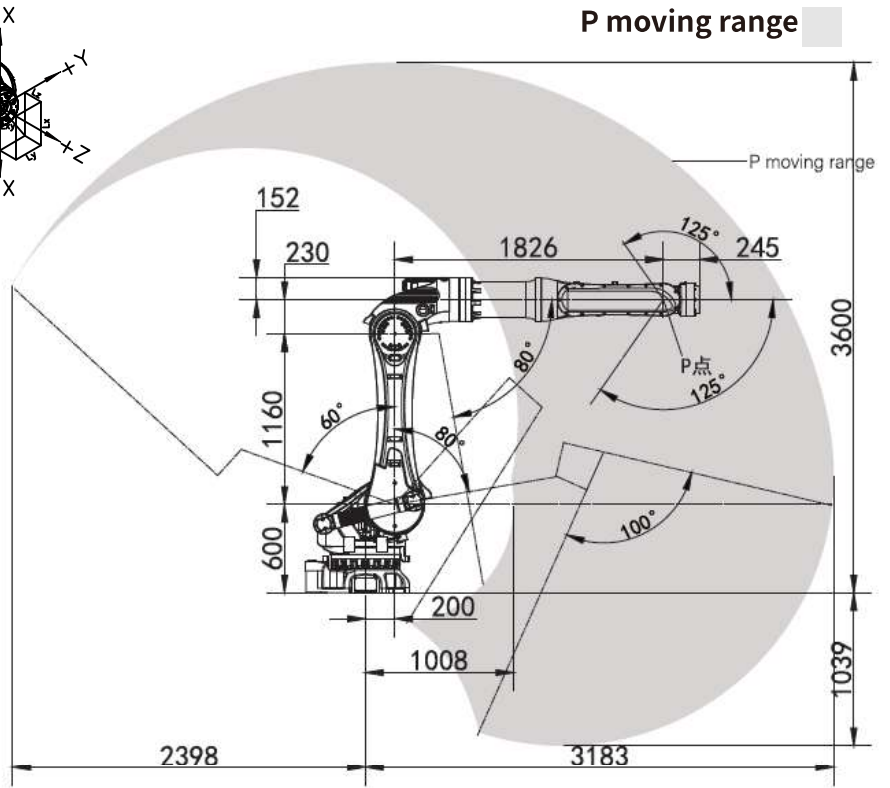
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# SPECIFICATIONS

## TECHNICAL SPECIFICATION



## External dimensions and moving range



End flange installation dimensions

Base installation dimensions

# YS210-2650

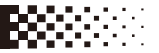
PAYLOAD : 210KG

REPEATABILITY :  $\pm 0.06\text{mm}$



Number of axis	6-axis		Maximum speed	Moving range
Motion radius	2650mm	J1 axis S	120°/s	$\pm 180^\circ$
Power capacity	25.0KVA	J2 axis L	110°/s	+60°~-180°
Max Payload	210KG	J3 axis U	115°/s	+95°~-80°
Protection class	IP54/IP67	J4 axis R	190°/s	$\pm 210^\circ$
Repeatability	$\pm 0.06\text{mm}$	J5 axis B	150°/s	$\pm 125^\circ$
Robot mass	1240KG	J6 axis T	220°/s	$\pm 360^\circ$
Built-in air tube	$\Phi 10$	J4 axis R(N.m)		1134
Input/Output signals	Standard 16 in/16 out 24 VDC	J5 axis B(N.m)		1134
Mounting position	Floor	J6 axis T(N.m)		735

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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	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



**ATTENTION**

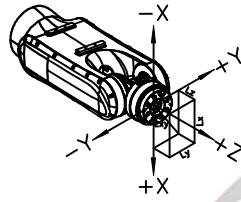
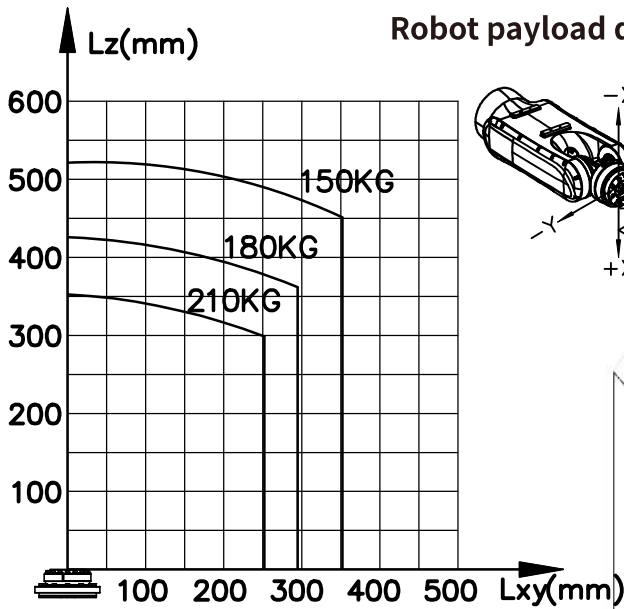
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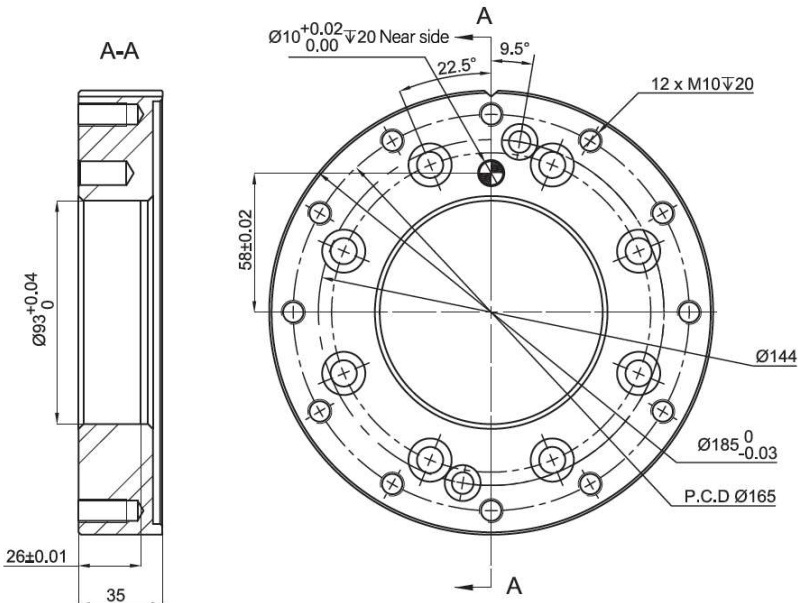
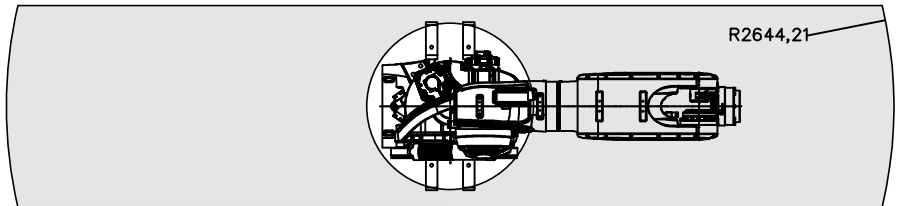
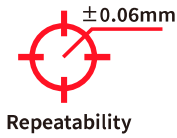
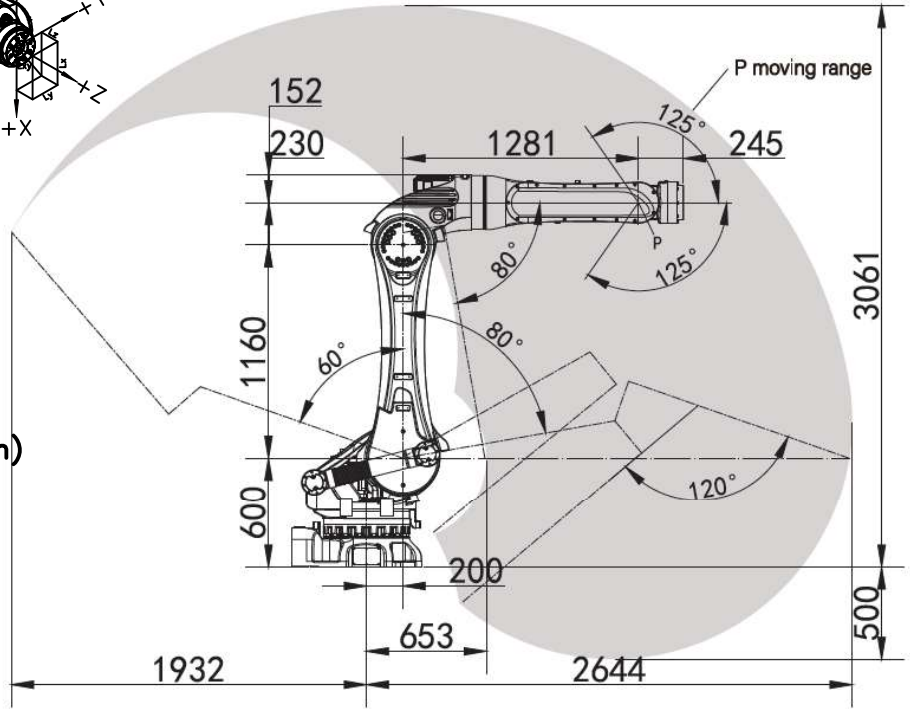
# SPECIFICATIONS

## TECHNICAL SPECIFICATION

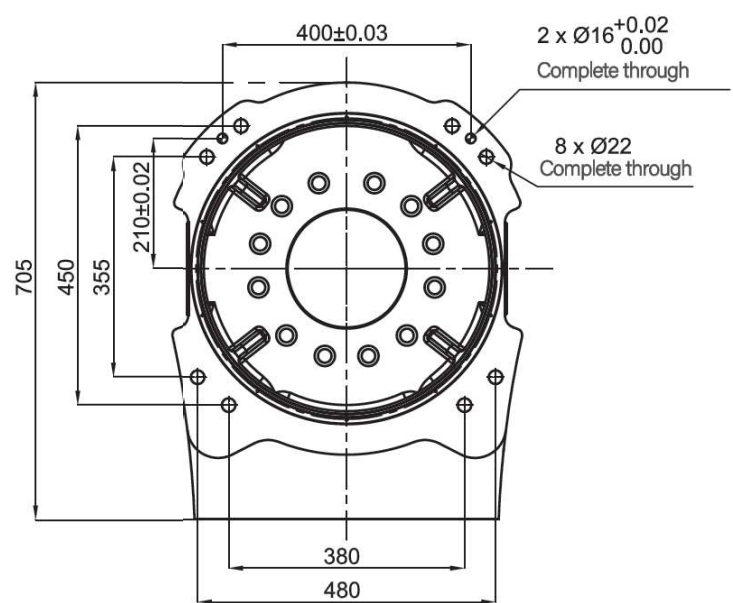


## External dimensions and moving range

P moving range



End flange installation dimensions



Base installation dimensions

# YS280-2650

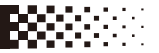
PAYLOAD : 280KG

REPEATABILITY :  $\pm 0.06\text{mm}$



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

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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/S <sup>2</sup> (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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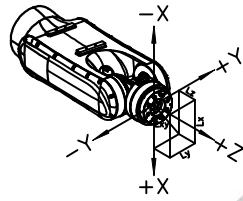
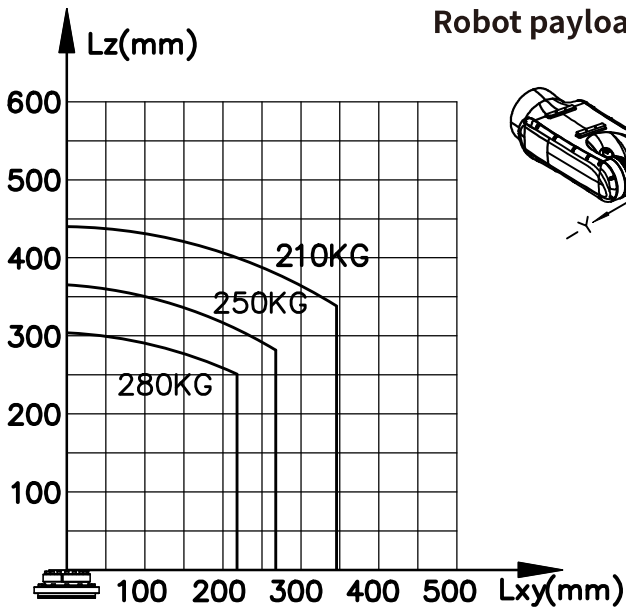
# SPECIFICATIONS

## TECHNICAL SPECIFICATION

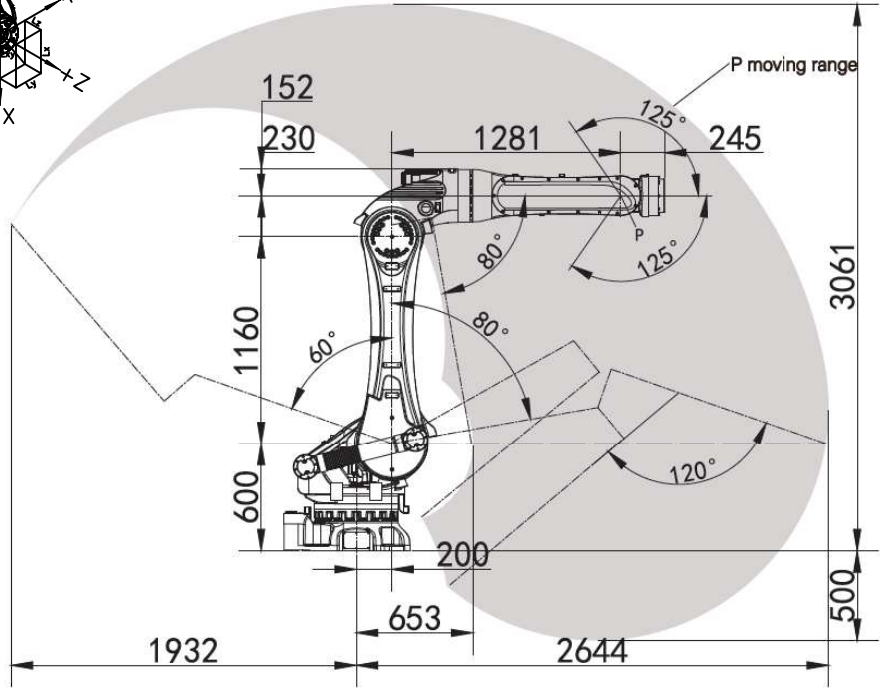


Robot payload diagram

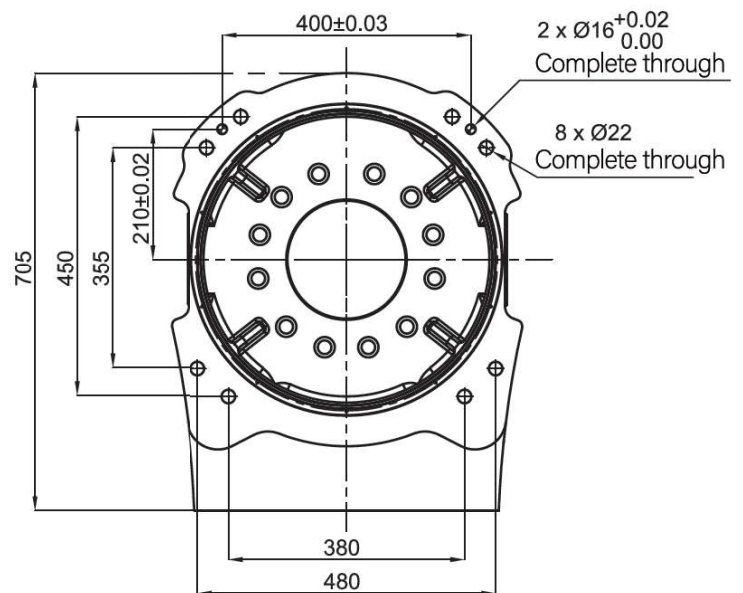
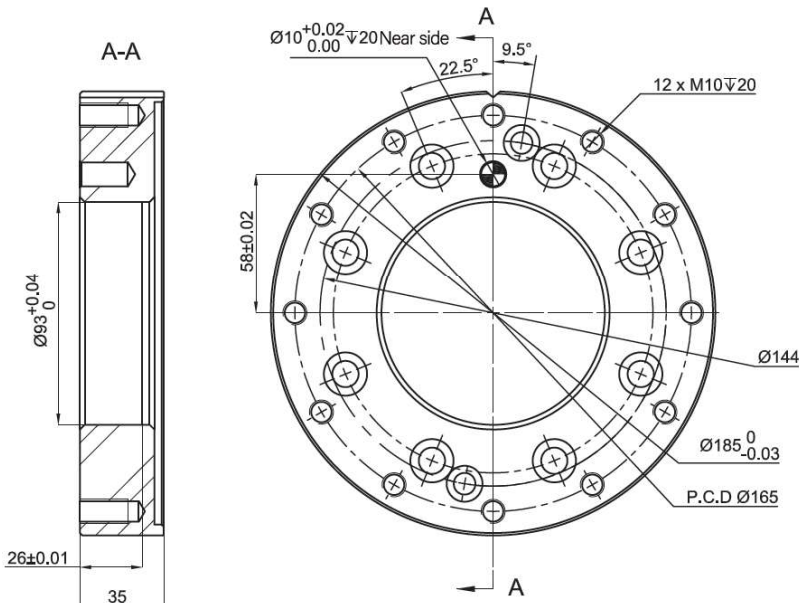
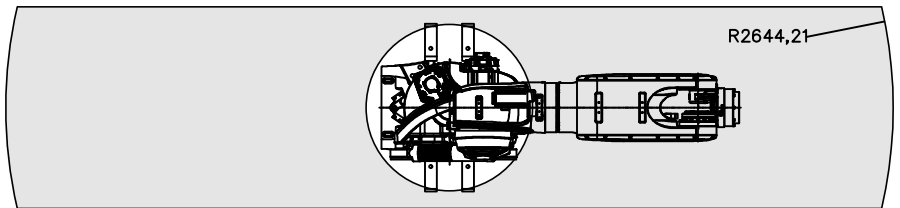
External dimensions and moving range



P moving range



- 280KG Max payload
- ±0.06mm Repeatability
- 2650mm Moving range



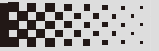
End flange installation dimensions

Base installation dimensions

# YS10C-1488

PAYLOAD : 10KG

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



LOADING & UNLOADING



PALLETIZING

HANDLING

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



### Installation Environment

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

### Control cabinet specifications

Overall dimension	490(width)*400(depth)*365(height)mm (with protrusions)
Approximate mass	40KG
Cooling method	Natural cooling
Power specifications	1PH AC220V 50/60HZ
Grounding	Industrial grounding (dedicated grounding, resistance below100Ω)
Input/Output signal	General signal:16 input,16 output
Position control method	Serial communication EtherCAT.TCP/IP
Memory capacity	JOB: 200000 steps,10000 robot commands (total 200M)
LAN(Host link)	Ethercat(1pc) TCP/IP(1pc)
Control mode	Servo position control
Ambient temperature	In use:0~ + 45°C,In storage: - 20~ + 60°C
Driver unit	AC servo system (6-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

#### Serial port I/F

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

#### Altitude

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

#### Others

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

### Teach pendent specifications

External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED,640*480 pixels
Protection class	IP54
Cable Length	Standard:6m Optional:8m/10m/15m

#### Manipulator

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

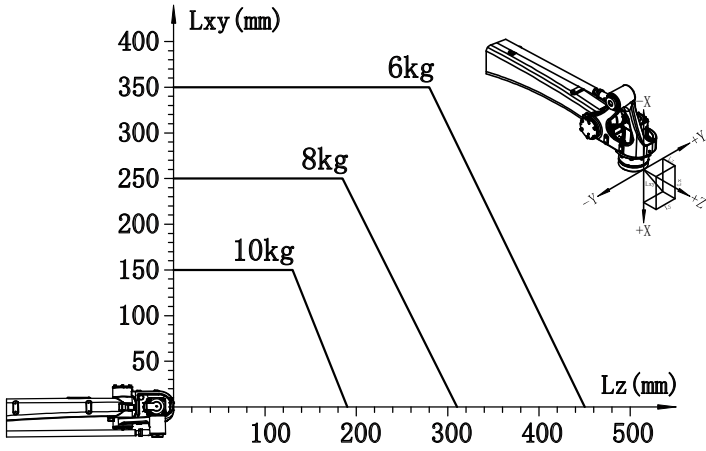


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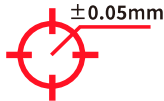
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Robot payload diagram



Max payload

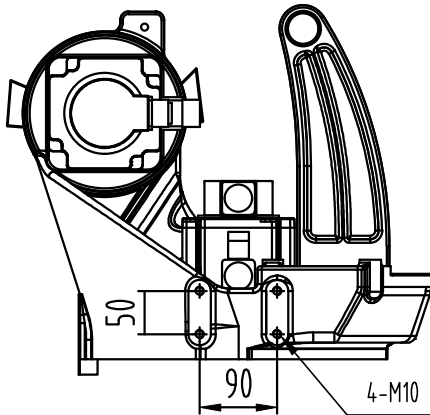
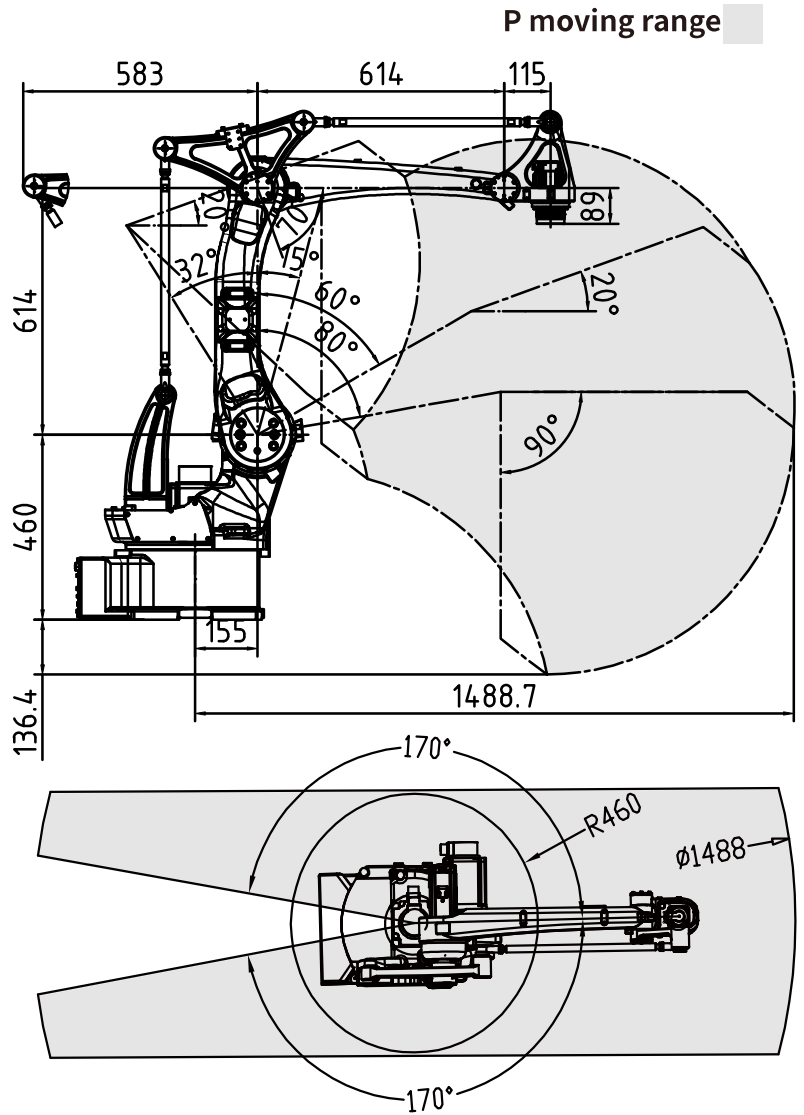


Repeatability

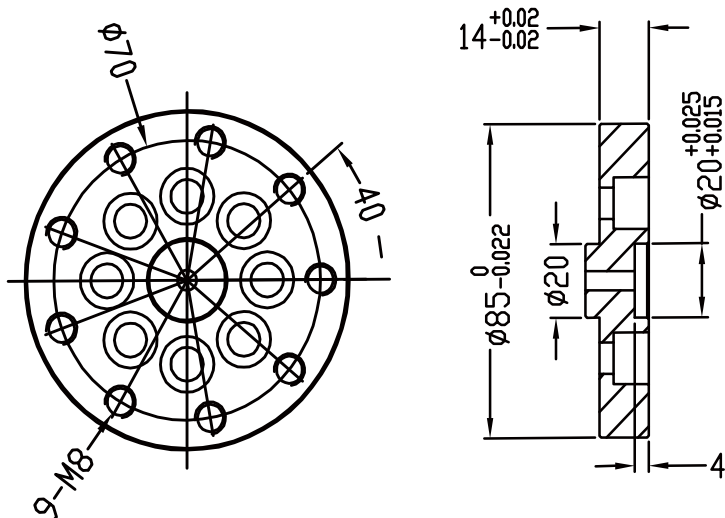


Moving range

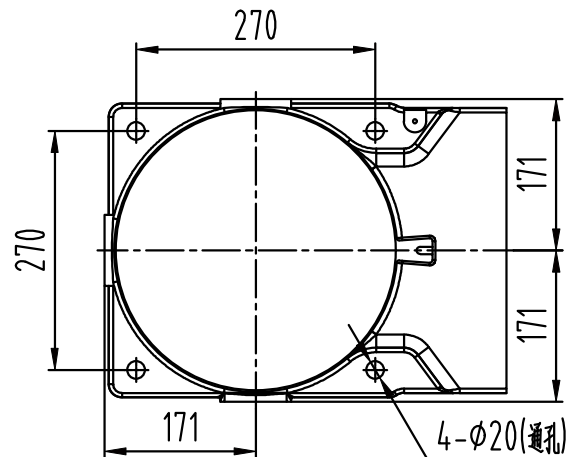
External dimensions and moving range



Turning base installation dimensions



End flange installation dimensions



Base installation dimensions



Number of axis	4-axis	Maximum speed	Moving range
Motion radius	1750mm	J1 axis S	±170°
Power capacity	6.0KVA	J2 axis L	-70°~+30°
Max Payload	30KG	J3 axis U	+70°~+80°
Protection class	IP54	J4 axis R	±360°
Repeatability	±0.05mm	Input/Output signals	Standard 16 in/16 out 24 VDC
Robot mass	295KG	Mounting position	Floor/frame
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	700(width)*530(depth)*740(height)mm (with protrusions)
Approximate mass	70KG
Cooling method	Natural cooling
Power specifications	1PH AC220V 50/60HZ
Grounding	Industrial grounding (dedicated grounding, resistance below 100Ω)
Input/Output signal	General signal: 16 input, 16 output
Position control method	Serial communication EtherCAT.TCP/IP
Memory capacity	JOB: 200000 steps, 10000 robot commands (total 200M)
LAN(Host link)	Ethercat(1pc) TCP/IP(1pc)
Control mode	Servo position control
Ambient temperature	In use: 0~ + 45°C, In storage: - 20~ + 60°C
Driver unit	AC servo system (6-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

### Serial port I/F

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

### Altitude

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

### Others

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

## Teach pendent specifications

External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED, 640*480 pixels
Protection class	IP54
Cable Length	Standard: 6m Optional: 8m/10m/15m

### Manipulator

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



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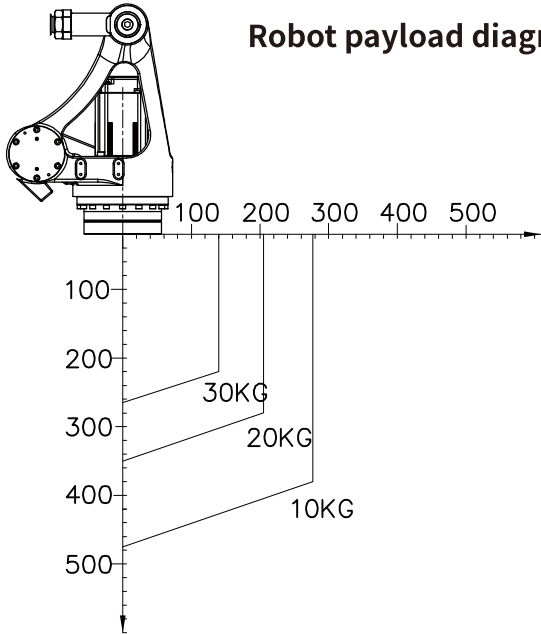
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# SPECIFICATIONS

## TECHNICAL SPECIFICATION



Robot payload diagram ◀

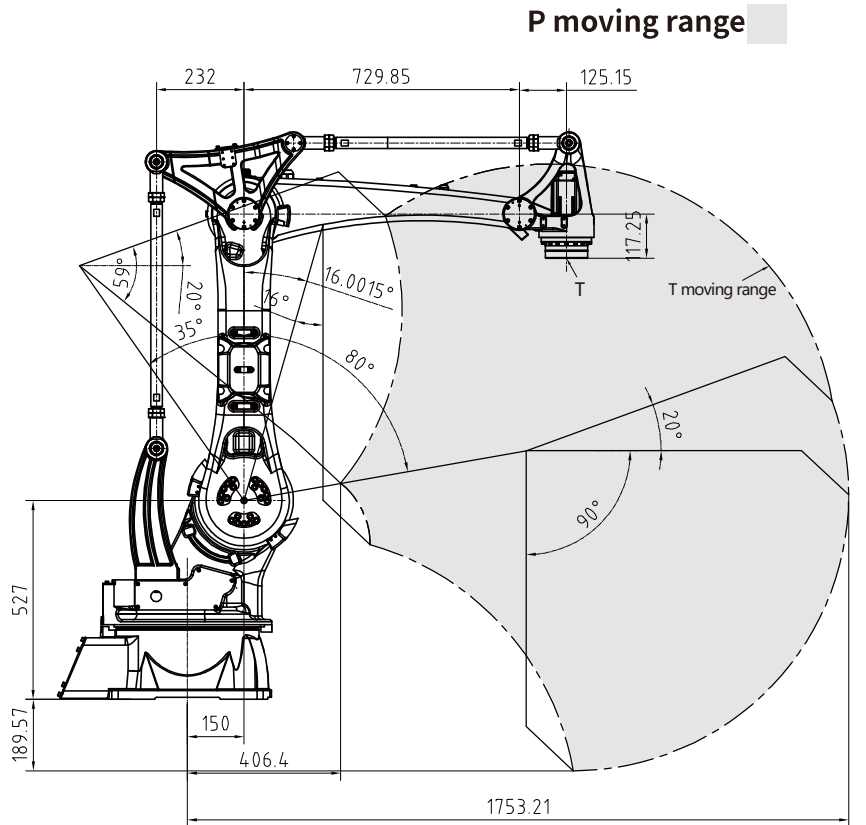


**30KG**  
Max payload

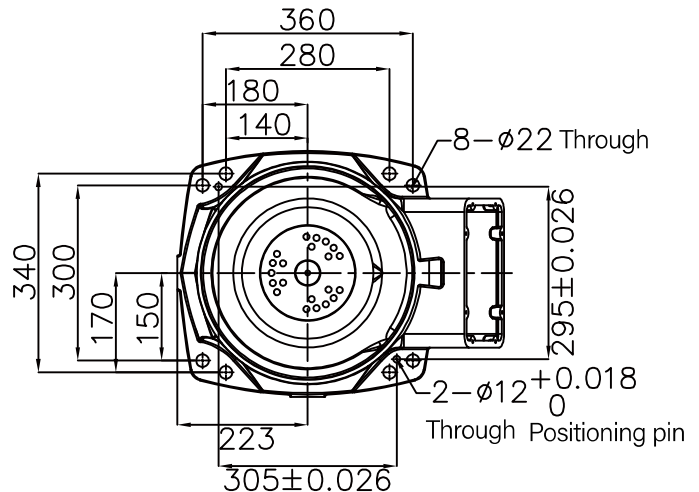
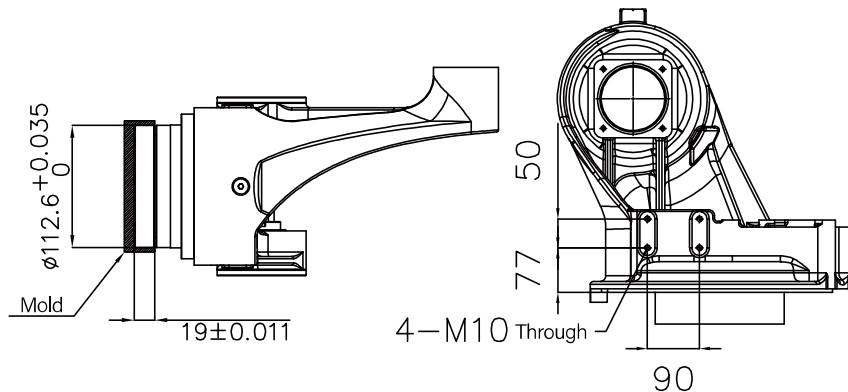
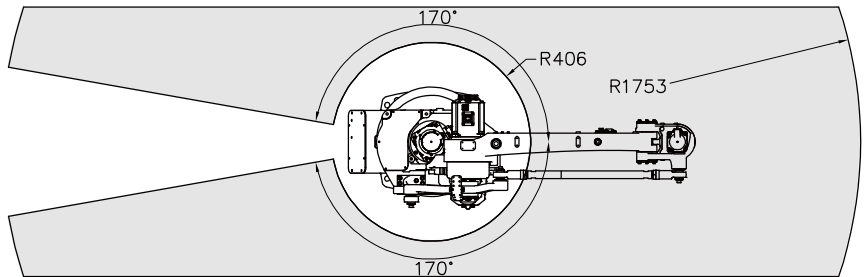
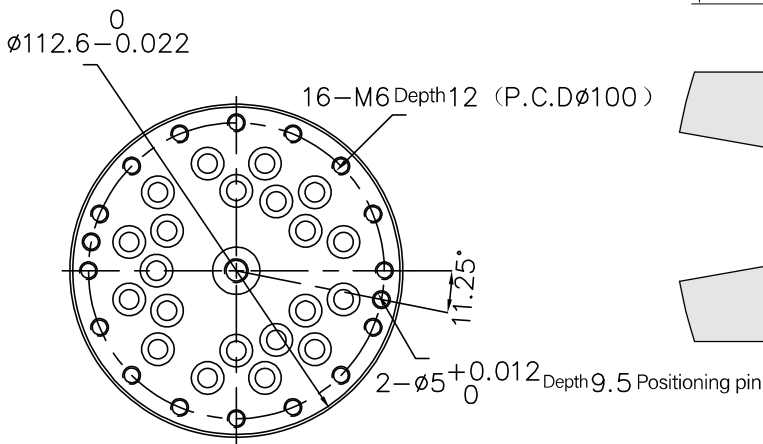
$\pm 0.05\text{mm}$   
Repeatability

2650mm  
Moving range

External dimensions and moving range ◀



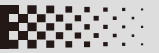
P moving range



End flange installation dimensions ◀

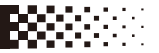
Turning base installation dimensions ◀

Base installation dimensions ◀


**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)
Approximate mass	170KG
Cooling method	Natural cooling
Power specifications	3PH AC380V 50/60HZ
Grounding	Industrial grounding (dedicated grounding, resistance below 100Ω)
Input/Output signal	General signal: 16 input, 16 output
Position control method	Serial communication EtherCAT.TCP/IP
Memory capacity	JOB: 200000 steps, 10000 robot commands (total 200M)
LAN(Host link)	Ethercat(1pc) TCP/IP(1pc)
Control mode	Servo position control
Ambient temperature	In use: 0~ + 45°C, In storage: - 20~ + 60°C
Driver unit	AC servo system (6-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

### Serial port I/F

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

### Altitude

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

### Others

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

## Teach pendent specifications

External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED, 640*480 pixels
Protection class	IP54
Cable Length	Standard: 6m Optional: 8m/10m/15m

### Manipulator

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



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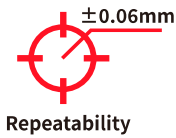
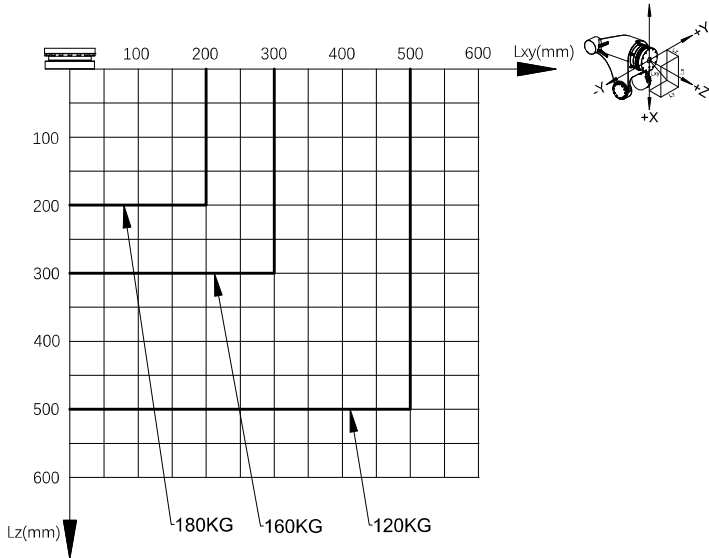
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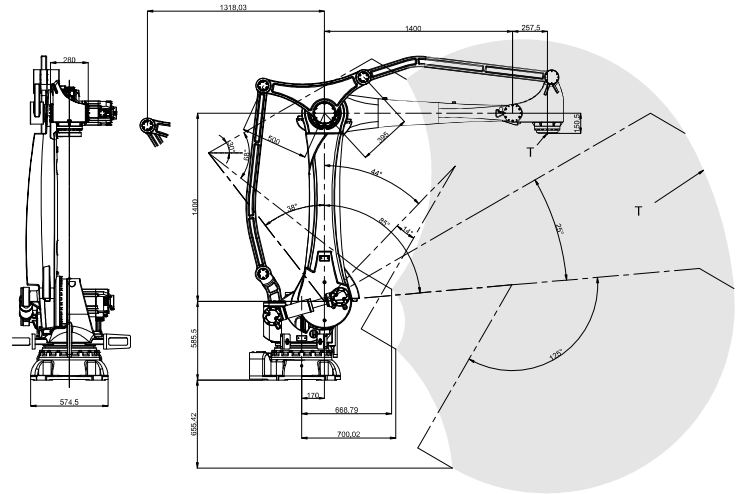
# SPECIFICATIONS

## TECHNICAL SPECIFICATION

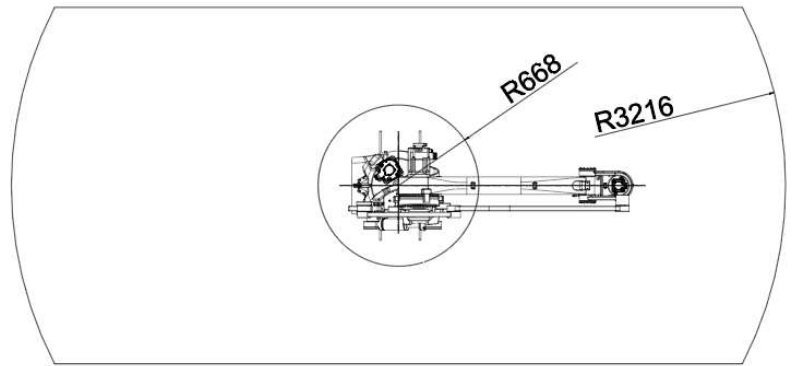
Robot payload diagram



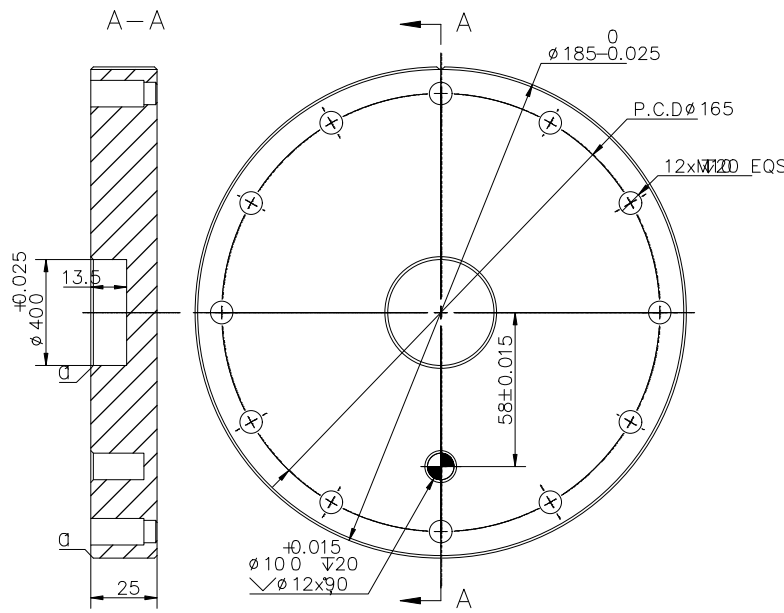
External dimensions and moving range



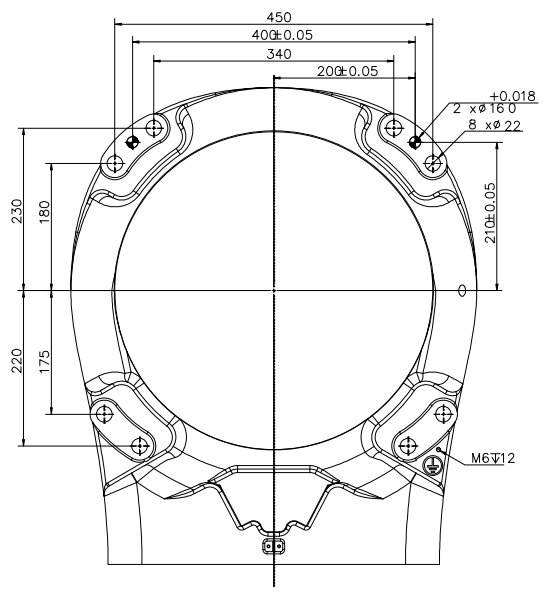
P moving range



A-A



End flange installation dimensions



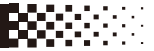
Base installation dimensions

# YSRT 100B-230

REPEATABILITY :  $\pm 0.08\text{mm}$



Number of axis	4-axis	Motion range		Speed with rated payload	
Maximum payload	100 kg	J1 axis S	$\pm 150^\circ$	J1 axis S	27*/s
Maximum stroke	2363mm	J2 axis L	$+35^\circ \sim 55^\circ$	J2 axis L	70*/s
IP class	J1, J2-IP56; J3, J4-IP67	J3 axis U	$+60^\circ \sim 50^\circ$	J3 axis U	74.5*/s
Mounting position	Floor type	J4 axis R	$\pm 360^\circ$	J4 axis R	222*/s
Approx. weight	630 kg (without cabinet)				
Repeatability	$\pm 0.08\text{ mm}$				
Internal air duct	$\Phi 10$				



## Control cabinet specifications

Dimensions	560*500*730mm
Approx. weight	55KG
Cooling method	Natural cooling
Input power	380VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 1000)
VO terminals	16 digital inputs 16 digital inputs
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200.000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

## Operating conditions

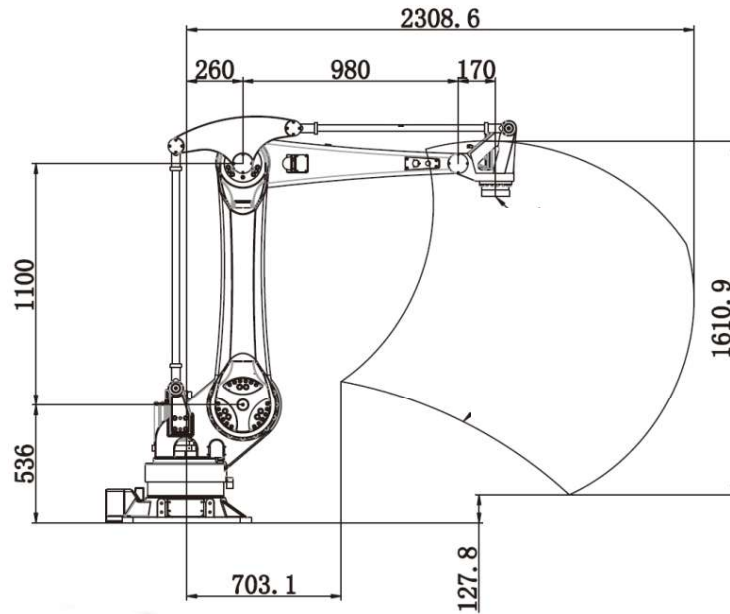
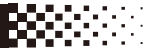
Use temperature	0-45°C
Storage temperature	-20-60°C
Humidity	10-90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	With no corrosive or combustible gas With no water, oil or drug splashing. With no electromagnetic field nearby. With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


**ATTENTION**

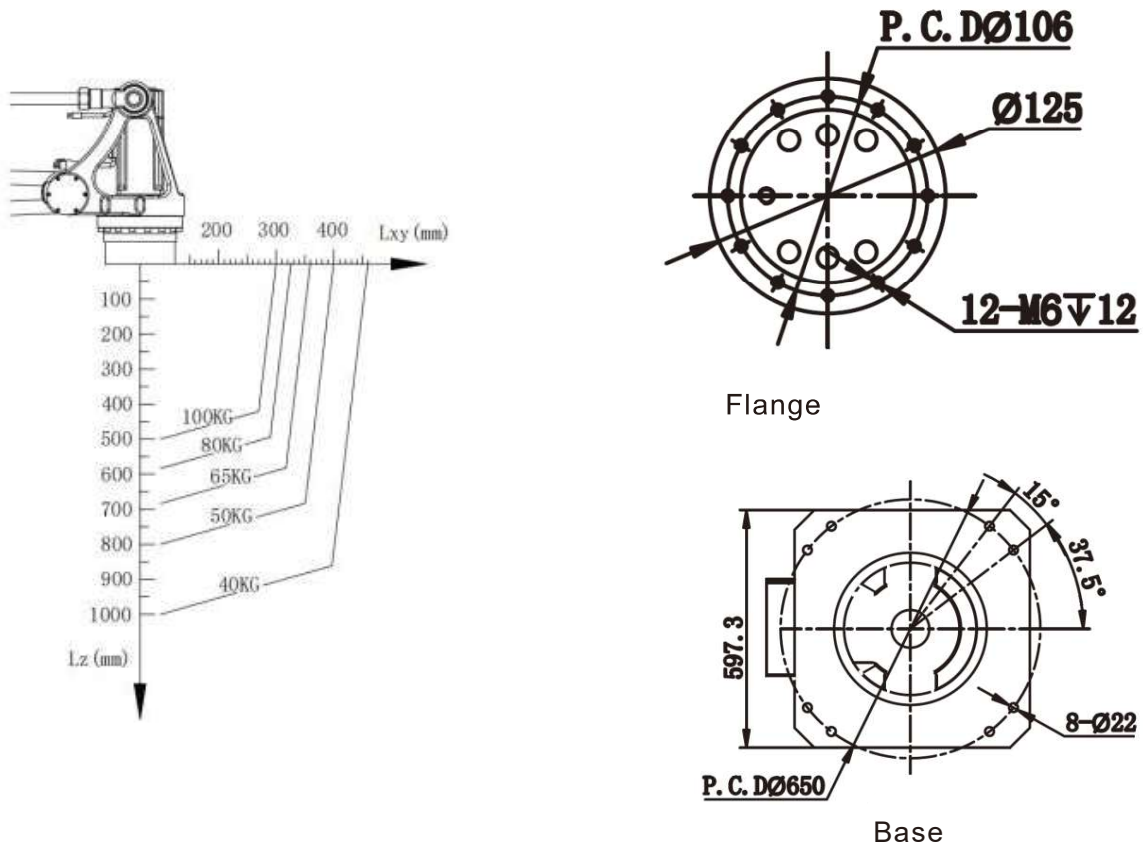
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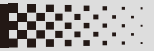
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► Flange and base dimensions (unit: mm)



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Number of axis	4-axis		Maximum speed	Moving range
Motion radius	300mm	J1 axis S	J1+J2 5950mm/s	$\pm 145^\circ$
Power capacity	1.5KVA	J2 axis L		$\pm 120^\circ$
Max payload	Rated 1KG/Max 4KG	J3 axis U	1200mm/s	150mm
Repeatability	$\pm 0.01\text{mm}$	J4 axis R	880°/s	$\pm 360^\circ$
Robot mass	15KG	Input/Output signals		Standard 16 in/16 out 24 VDC
Built-in air tube	$\Phi 6$	Mounting position		Floor



## Installation Environment

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

## Control cabinet specifications

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

### Serial port I/F

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

### Altitude

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

### Others

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

## Teach pendent specifications

External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED, 640*480 pixels
Protection class	IP54
Cable Length	Standard 6m. Optional: 8m, 10m, 15m

### Manipulator

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


**ATTENTION**

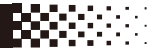
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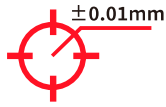
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# SPECIFICATIONS

## TECHNICAL SPECIFICATION



Max payload



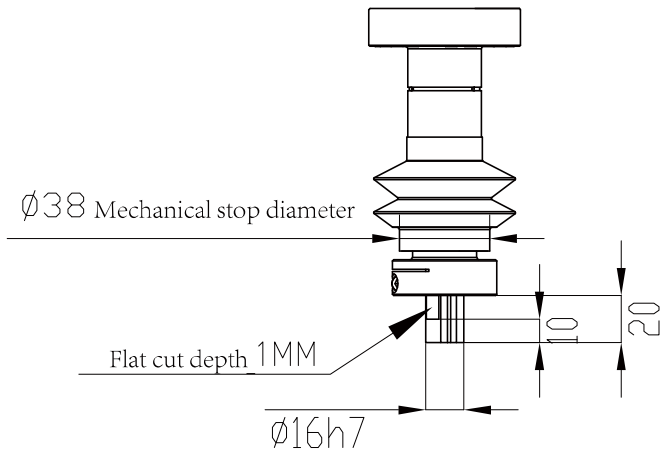
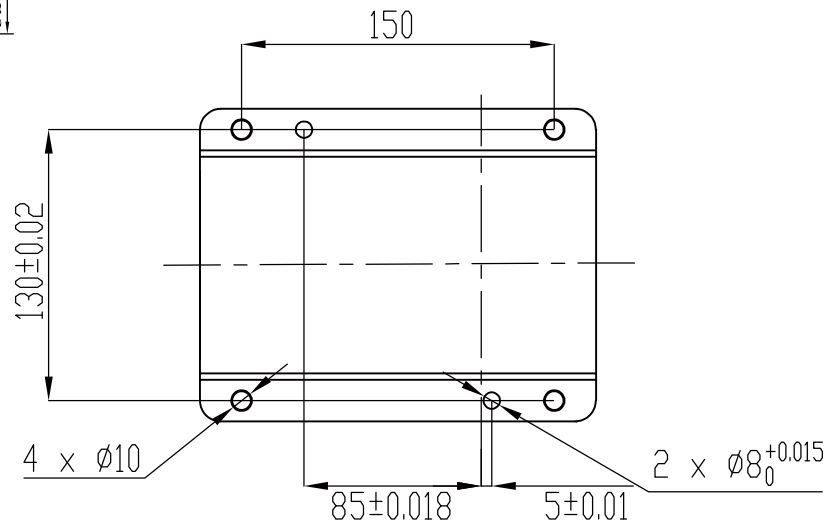
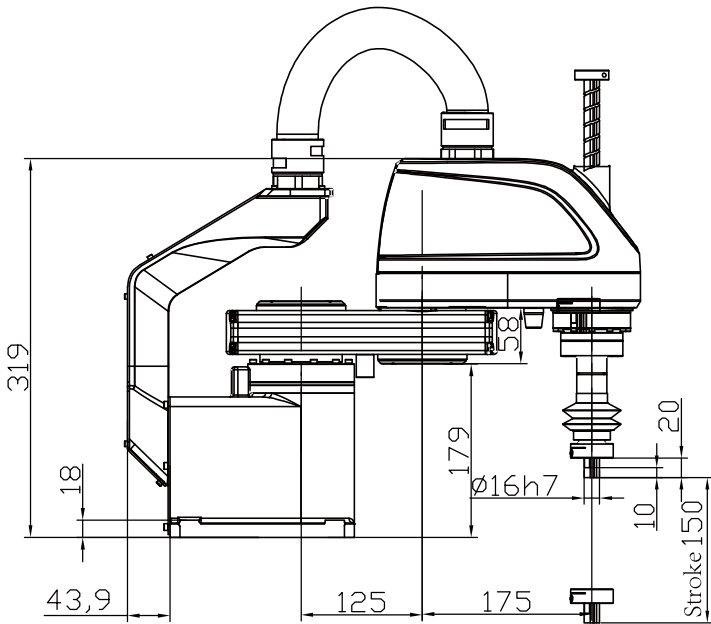
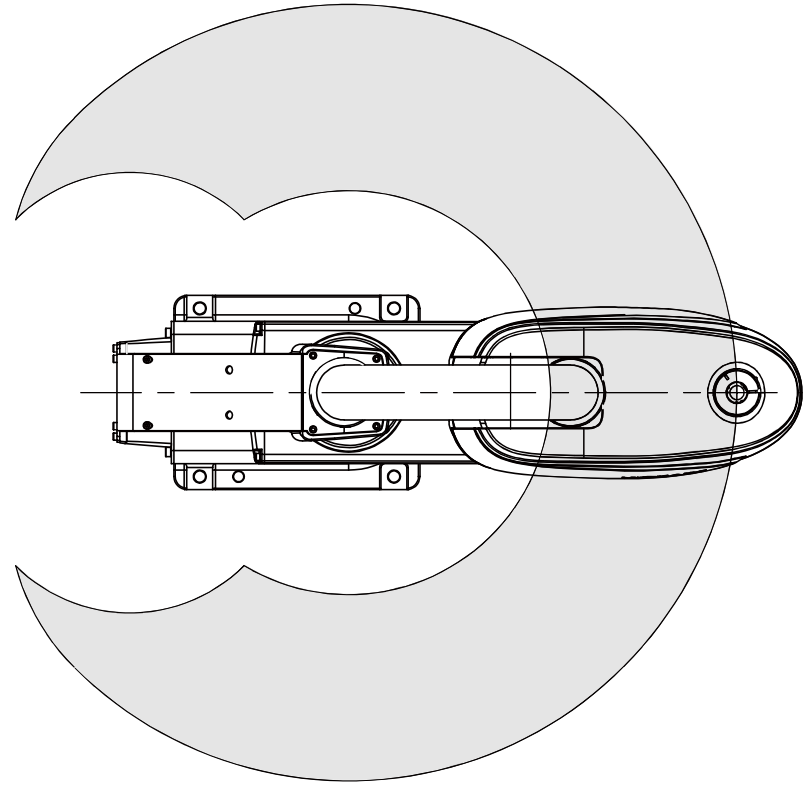
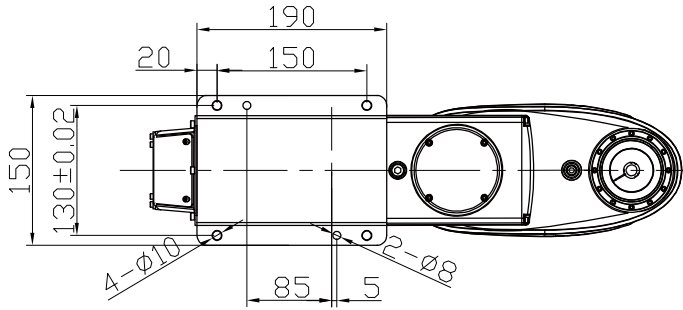
Repeatability



Moving range

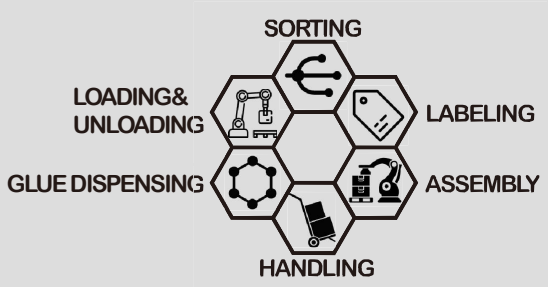
External dimensions and moving range 

P moving range 

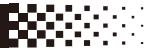


End flange installation dimensions 

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

### Serial port I/F

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

### Altitude

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

### Others

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

## Teach pendant specifications

External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED, 640*480 pixels
Protection class	IP54
Cable Length	Standard 6m. Optional: 8m, 10m, 15m

### Manipulator

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


**ATTENTION**

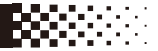
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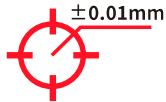
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# SPECIFICATIONS

## TECHNICAL SPECIFICATION



Max payload



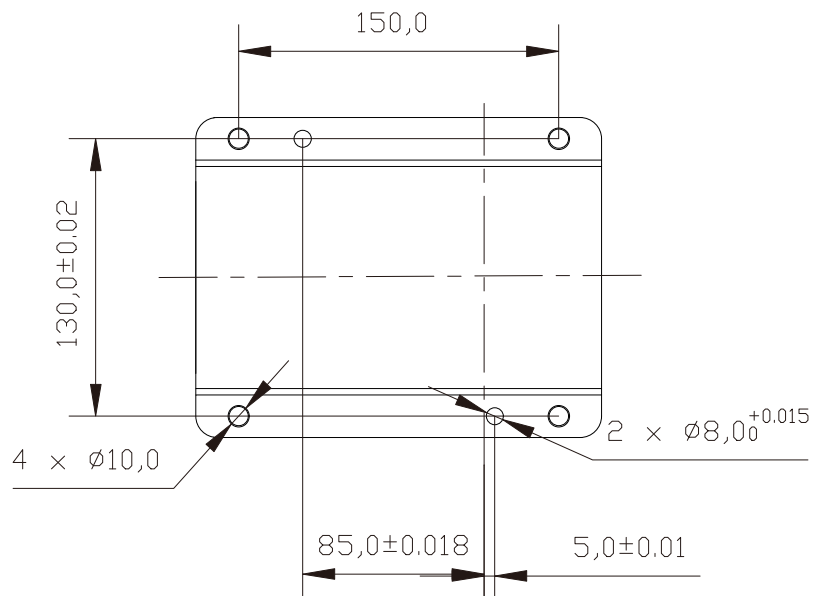
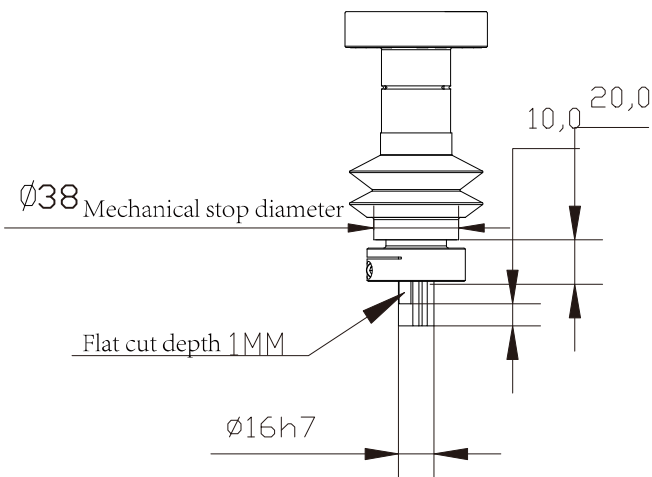
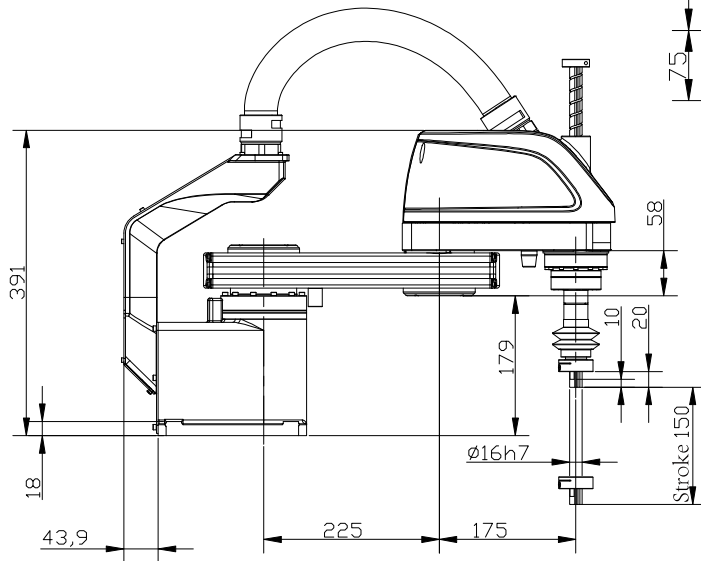
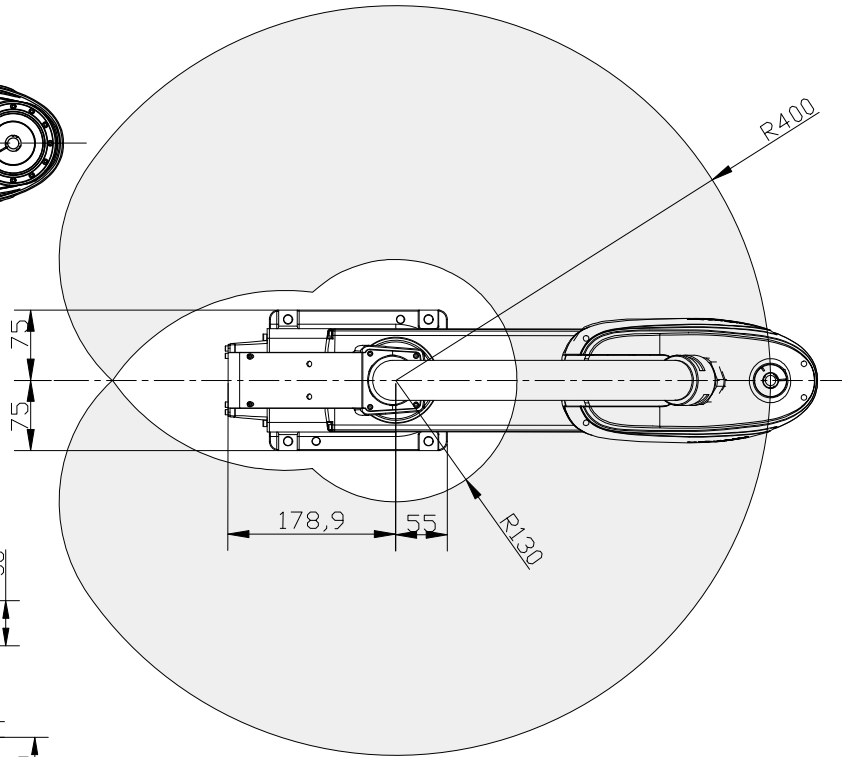
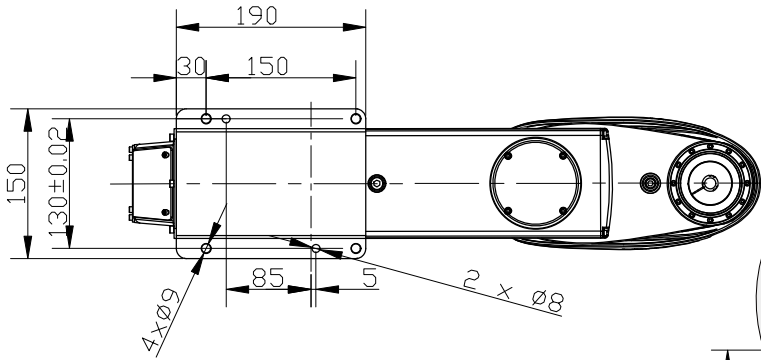
Repeatability



Moving range

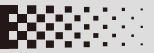
External dimensions and moving range 

P moving range 

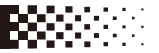


End flange installation dimensions 

Base installation dimensions 



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



## Installation Environment

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

## Control cabinet specifications

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

Serial port I/F	RS485(1pc) RS422(1pc) RS232(1pc) CAN(1pc) USB(1pc)
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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 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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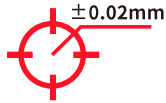
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## TECHNICAL SPECIFICATION



Max payload



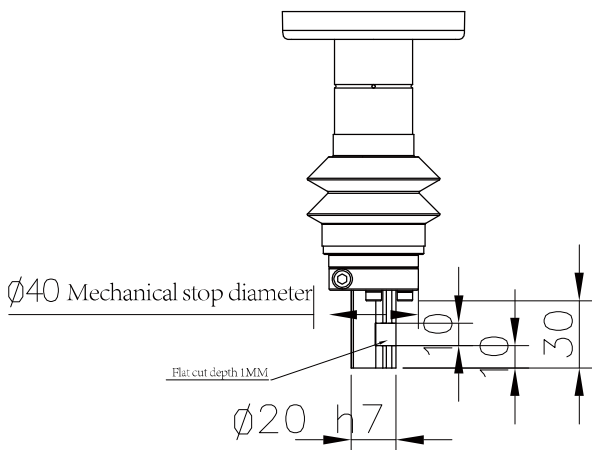
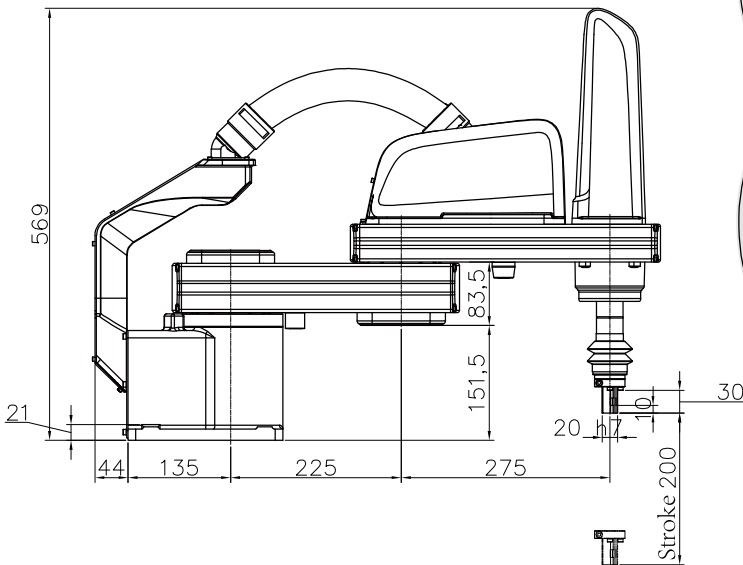
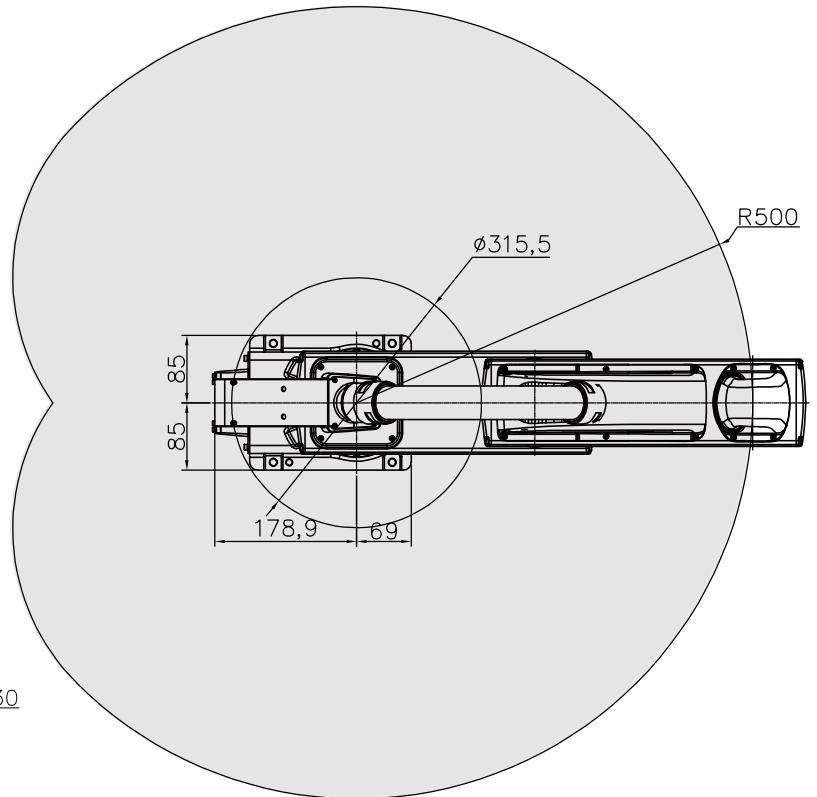
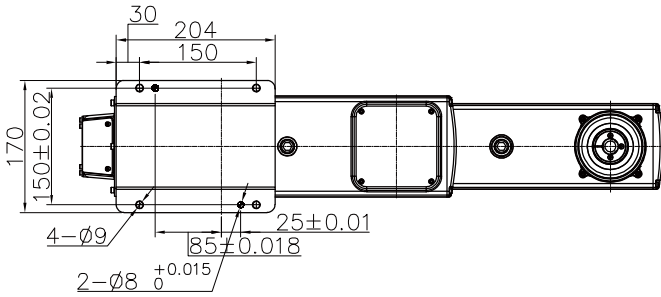
Repeatability



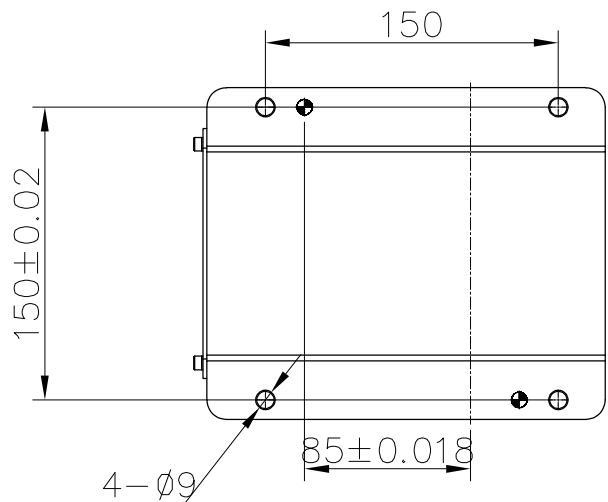
Moving range

External dimensions and moving range

P moving range



End flange installation dimensions



Base installation dimensions

# YS10SC-600

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



Number of axis	4-axis	Maximum speed	Moving range
Motion radius	600mm	J1 axis S	$\pm 135^\circ$
Power capacity	2.0KVA	J1+J2	8100mm/s
Max payload	Rated 5KG/Max 10KG	J2 axis L	$\pm 150^\circ$
Repeatability	$\pm 0.02\text{mm}$	J3 axis U	1100mm/s
Robot mass	28KG	J4 axis R	200mm
Built-in air tube	$\Phi 6$	Input/Output signals	$880^\circ/\text{s}$
		Mounting position	Standard 16 in/16 out 24 VDC
			Floor



### Installation Environment

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

### Control cabinet specifications

Overall dimension	420(width)*450(depth)*200(height)mm (with protrusions)
Approximate mass	18.5KG
Cooling method	Natural cooling
Power specifications	1PH 220V 50/60HZ
Grounding	Industrial grounding (dedicated grounding, resistance below100Ω)
Input/Output signal	General signal:16 input,16 output
Position control method	Serial communication EtherCAT.TCP/IP
Memory capacity	JOB: 200000 steps,10000 robot commands (total 200M)
LAN(Host link)	Ethercat(1pc) TCP/IP(1pc)
Control mode	Servo position control
Ambient temperature	In use:0~ + 45°C,In storage: - 20~ + 60°C
Driver unit	AC servo system (6-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

Serial port I/F	RS485(1pc) RS422(1pc) RS232(1pc) CAN(1pc) USB(1pc)
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Altitude	Below 1000m. Derate 1% for every additional 100m if over 1000m. Maximum 2000m.
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Others	No dust, cutting fluid (including coolant), organic solvent, oil smoke, water, salt, medicine, anti-rust oil, strong microwave, ultraviolet light, X-ray, radiation exposure
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### Teach pendent specifications

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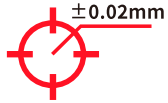
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## TECHNICAL SPECIFICATION



Max payload



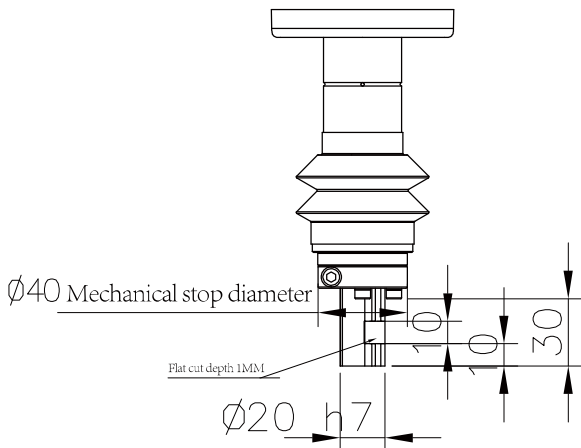
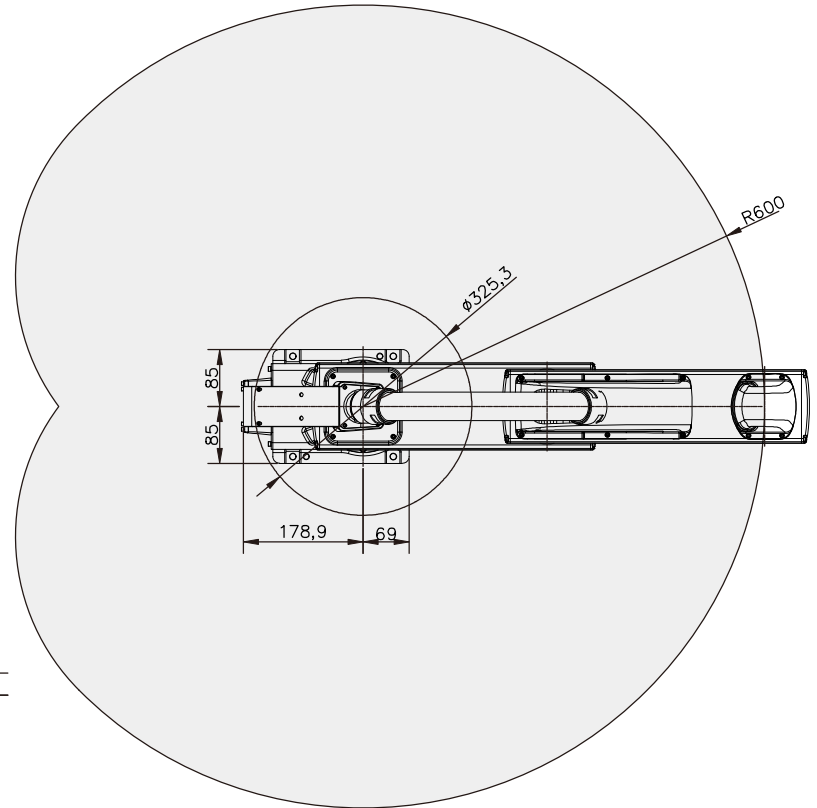
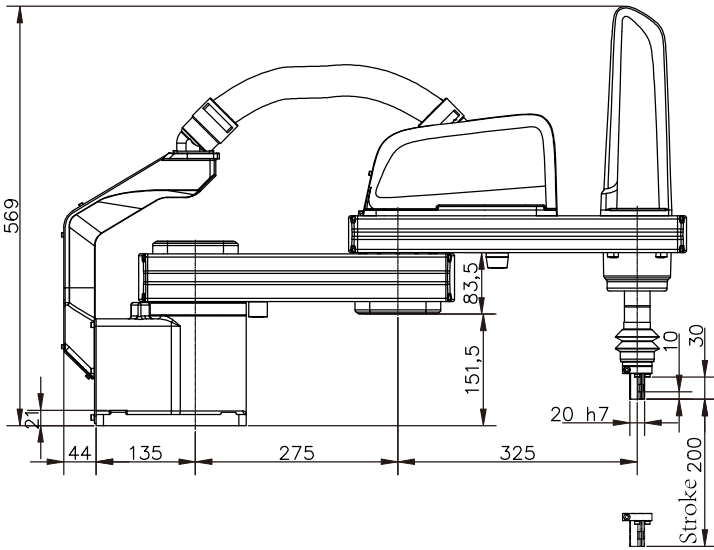
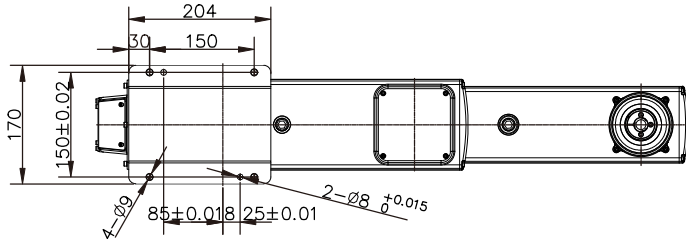
Repeatability



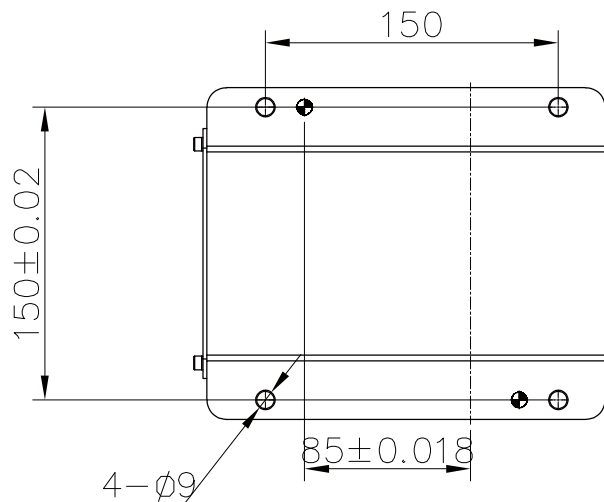
Moving range

External dimensions and moving range ◀

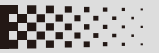
P moving range ◀



End flange installation dimensions ◀



Base installation dimensions ◀



Number of axis	4-axis		Maximum speed	Moving range
Motion radius	700mm	J1 axis S	J1+J2	±135°
Power capacity	2.0KVA	J2 axis L	9580mm/s	±150°
Max payload	Rated 5KG/Max 10KG	J3 axis U	1100mm/s	200mm
Repeatability	±0.02mm	J4 axis R	880°/s	±360°
Robot mass	29KG	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	420(width)*450(depth)*200(height)mm (with protrusions)
Approximate mass	18.5KG
Cooling method	Natural cooling
Power specifications	1PH 220V 50/60HZ
Grounding	Industrial grounding (dedicated grounding, resistance below100Ω)
Input/Output signal	General signal:16 input,16 output
Position control method	Serial communication EtherCAT.TCP/IP
Memory capacity	JOB: 200000 steps,10000 robot commands (total 200M)
LAN(Host link)	Ethercat(1pc) TCP/IP(1pc)
Control mode	Servo position control
Ambient temperature	In use:0~ + 45°C,In storage: - 20~ + 60°C
Driver unit	AC servo system (6-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

Serial port I/F	RS485(1pc) RS422(1pc) RS232(1pc) CAN(1pc) USB(1pc)
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Altitude	Below 1000m. Derate 1% for every additional 100m if over 1000m. Maximum 2000m.
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Others	No dust, cutting fluid (including coolant), organic solvent, oil smoke, water, salt, medicine, anti-rust oil, strong microwave, ultraviolet light, X-ray, radiation exposure
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### Teach pendent specifications

External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED,640*480 pixels
Protection class	IP54
Cable Length	Standard 6m. Optional: 8m, 10m, 15m

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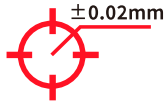
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# SPECIFICATIONS

## TECHNICAL SPECIFICATION



Max payload



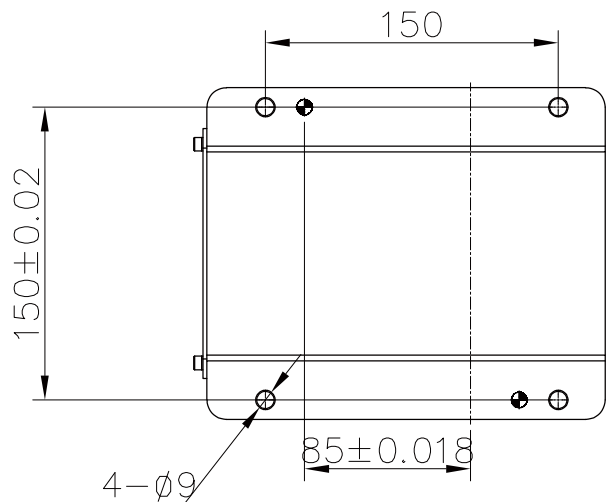
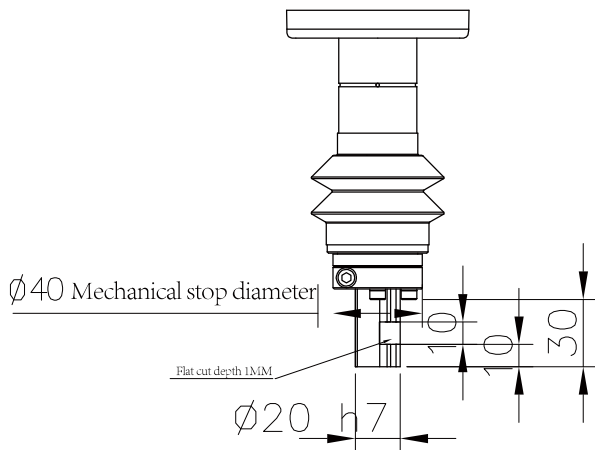
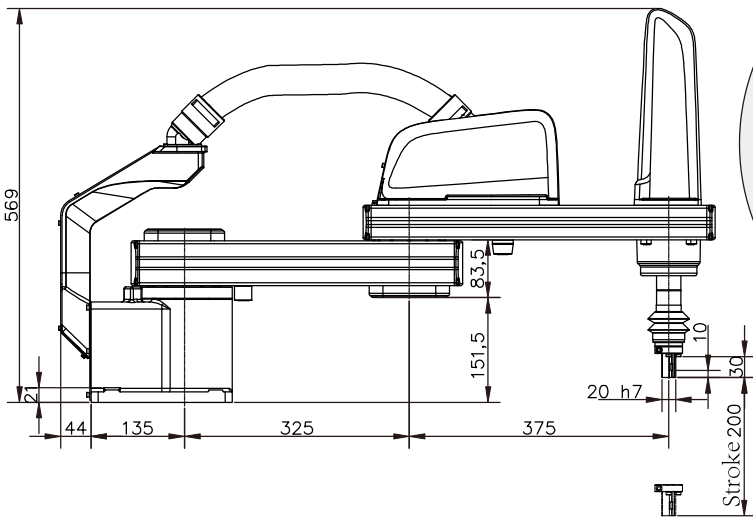
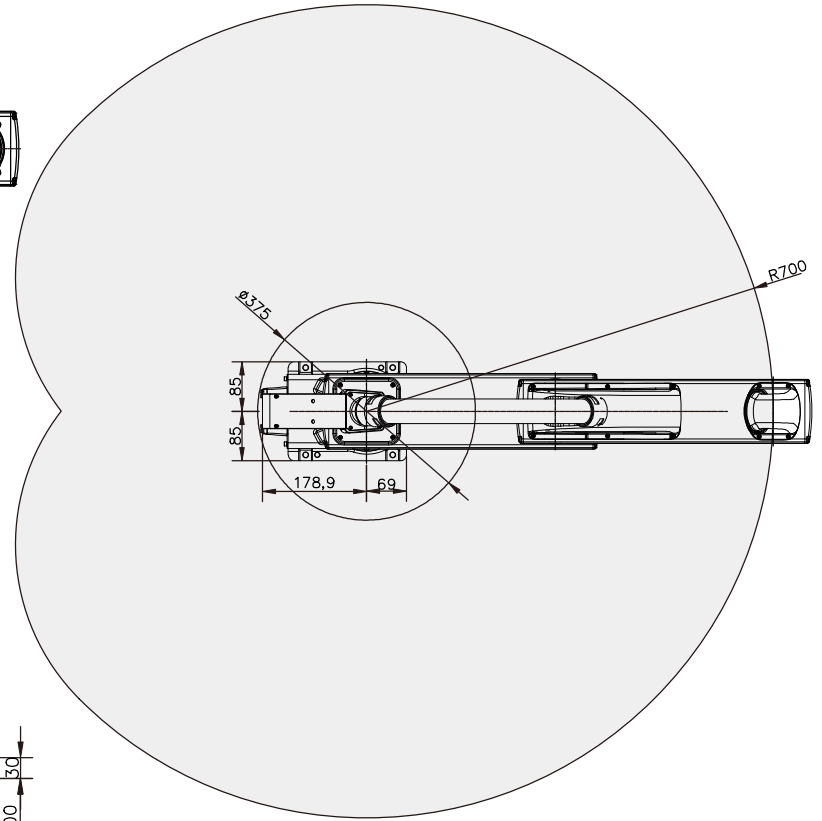
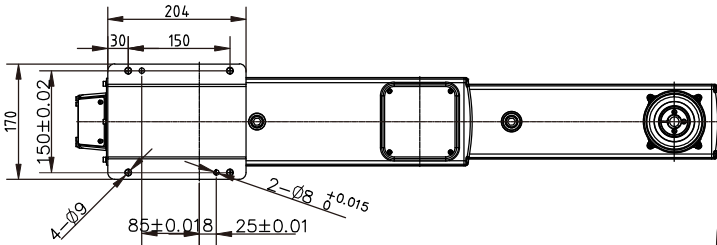
Repeatability



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	$\pm 135^\circ$
Power capacity	3.0KVA	J2 axis L	9210mm/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	63KG	Input/Output signals		Standard 16 in/16 out 24 VDC
Built-in air tube	$\phi 8$	Mounting position		Floor



### Installation Environment

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

### Control cabinet specifications

Overall dimension	420(width)*450(depth)*200(height)mm (with protrusions)
Approximate mass	18.5KG
Cooling method	Natural cooling
Power specifications	1PH 220V 50/60HZ
Grounding	Industrial grounding (dedicated grounding, resistance below100Ω)
Input/Output signal	General signal:16 input,16 output
Position control method	Serial communication EtherCAT.TCP/IP
Memory capacity	JOB: 200000 steps,10000 robot commands (total 200M)
LAN(Host link)	Ethercat(1pc) TCP/IP(1pc)
Control mode	Servo position control
Ambient temperature	In use:0~ + 45°C,In storage: - 20~ + 60°C
Driver unit	AC servo system (6-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

Serial port I/F	RS485(1pc) RS422(1pc) RS232(1pc) CAN(1pc) USB(1pc)
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Altitude	Below 1000m. Derate 1% for every additional 100m if over 1000m. Maximum 2000m.
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Others	No dust, cutting fluid (including coolant), organic solvent, oil smoke, water, salt, medicine, anti-rust oil, strong microwave, ultraviolet light, X-ray, radiation exposure
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### Teach pendent specifications

External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED,640*480 pixels
Protection class	IP54
Cable Length	Standard 6m. Optional: 8m, 10m, 15m

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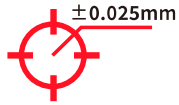
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# SPECIFICATIONS

## TECHNICAL SPECIFICATION



25KG  
Max payload



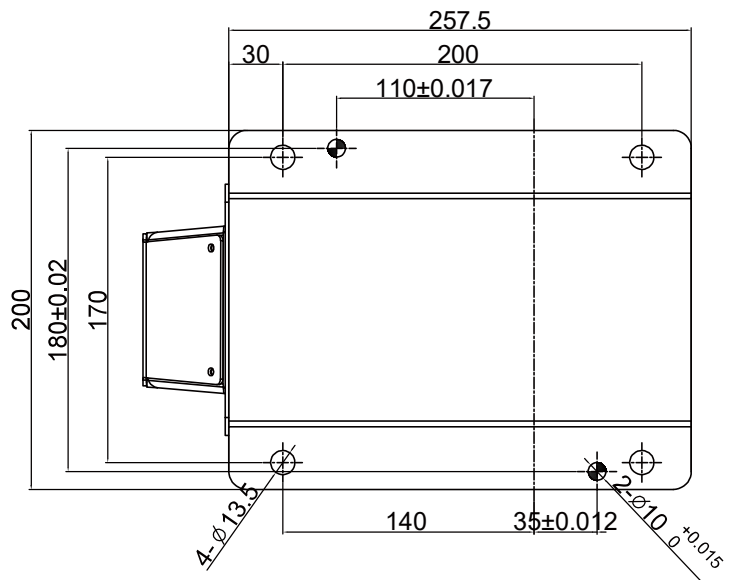
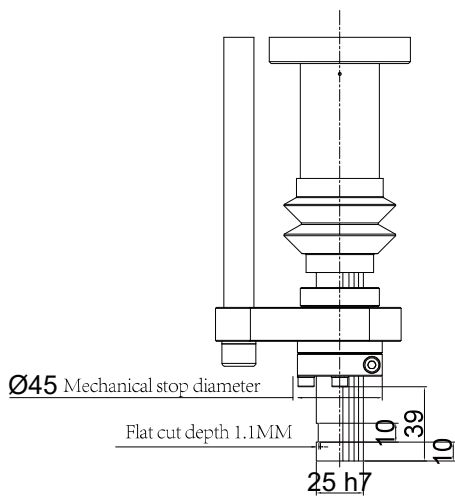
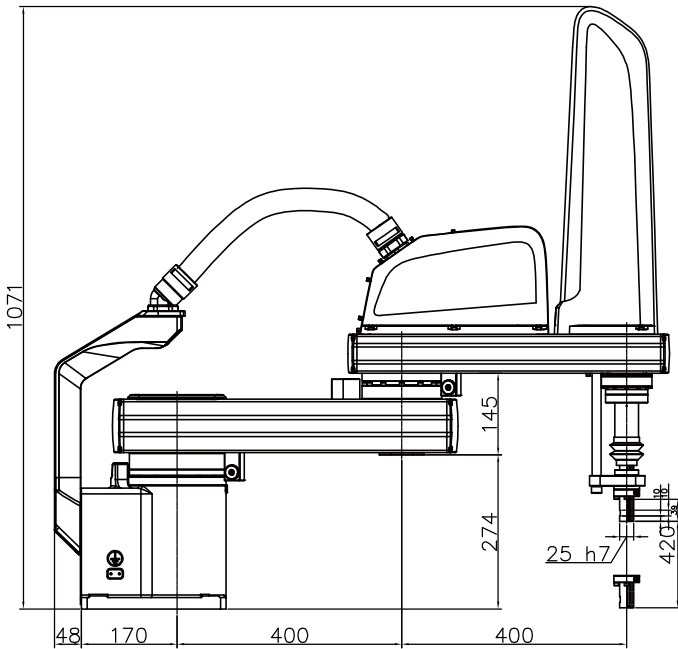
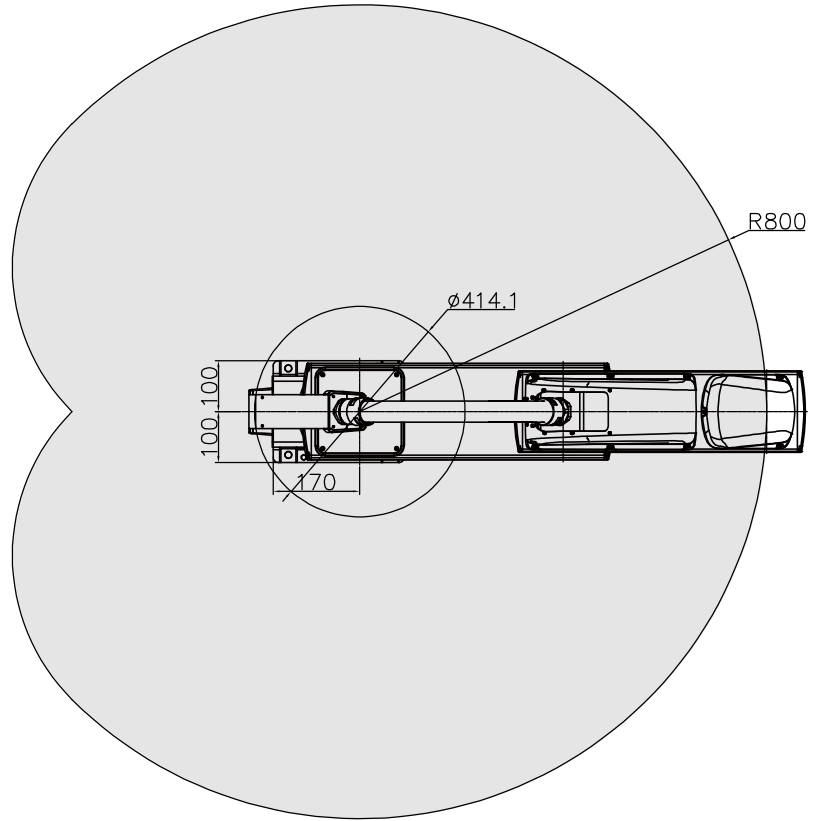
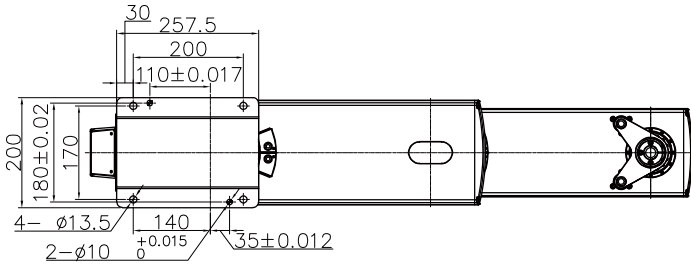
$\pm 0.025\text{mm}$   
Repeatability



800mm  
Moving range

External dimensions and moving range 

P moving range 



End flange installation dimensions 

Base installation dimensions 

# YS25SC-900

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



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	420(width)*450(depth)*200(height)mm (with protrusions)
Approximate mass	18.5KG
Cooling method	Natural cooling
Power specifications	1PH 220V 50/60HZ
Grounding	Industrial grounding (dedicated grounding, resistance below100Ω)
Input/Output signal	General signal:16 input,16 output
Position control method	Serial communication EtherCAT.TCP/IP
Memory capacity	JOB: 200000 steps,10000 robot commands (total 200M)
LAN(Host link)	Ethercat(1pc) TCP/IP(1pc)
Control mode	Servo position control
Ambient temperature	In use:0~ + 45°C,In storage: - 20~ + 60°C
Driver unit	AC servo system (6-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

#### Serial port I/F

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

#### Altitude

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

#### Others

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

### Teach pendent specifications

External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED,640*480 pixels
Protection class	IP54
Cable Length	Standard 6m. Optional: 8m, 10m, 15m

#### Manipulator

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



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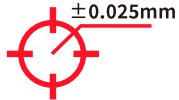
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# SPECIFICATIONS

## TECHNICAL SPECIFICATION



Max payload



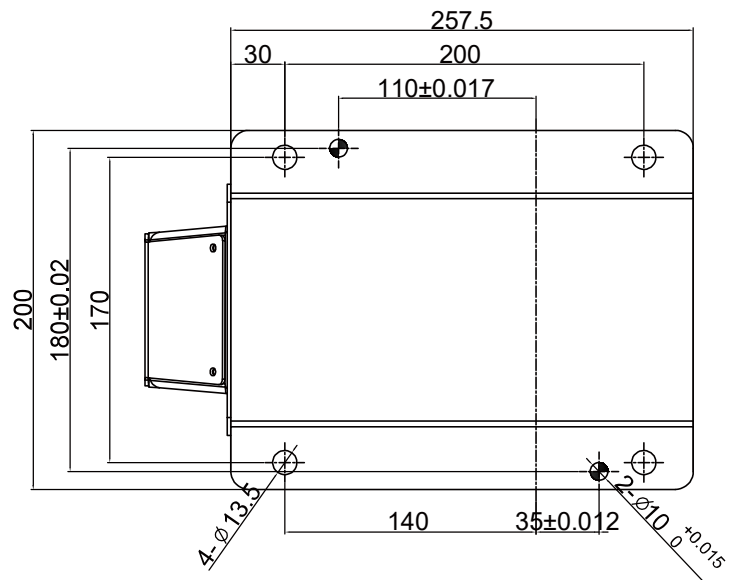
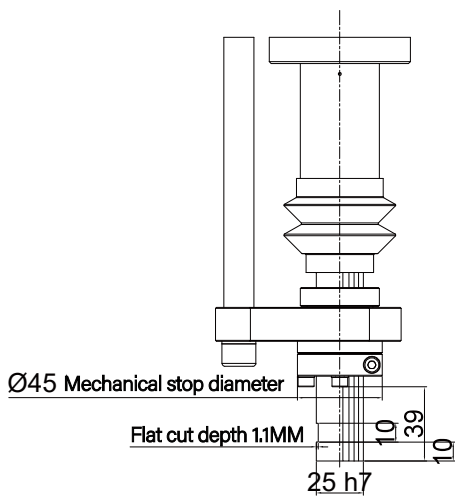
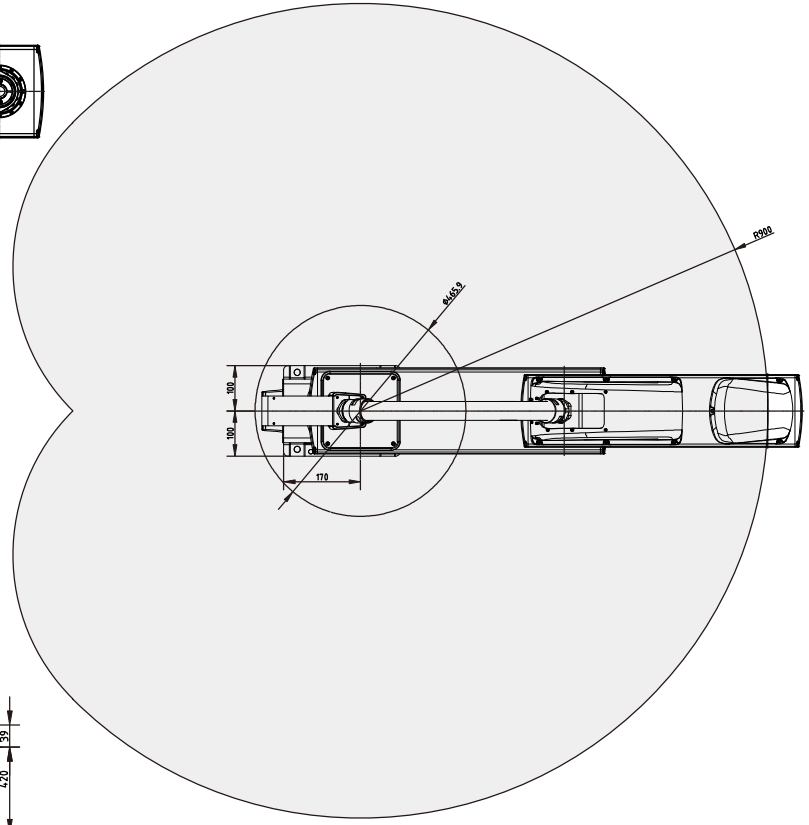
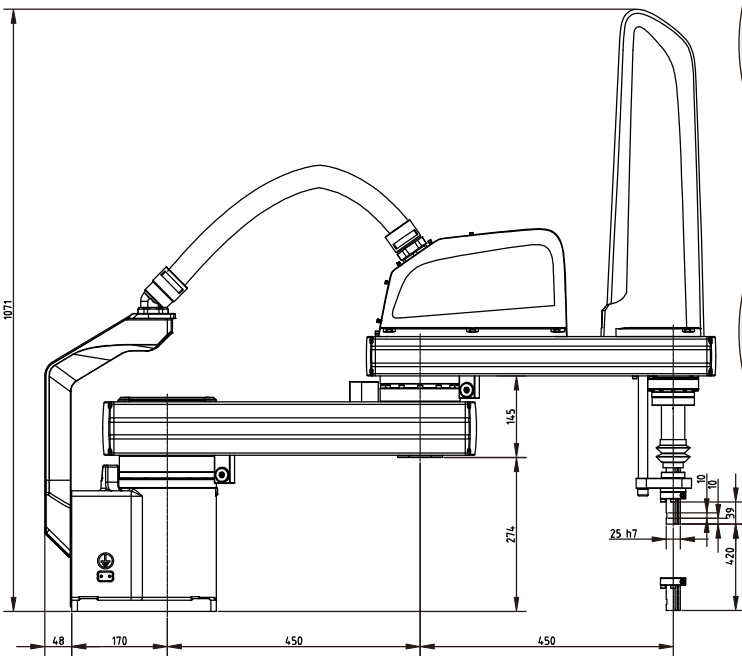
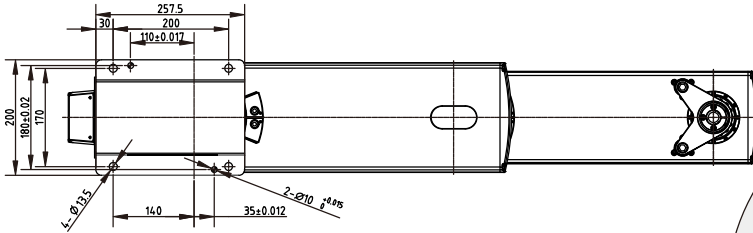
Repeatability



Moving range

External dimensions and moving range 

P moving range 



End flange installation dimensions 

Base installation dimensions 

# YS25SC-1000

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



Number of axis	4-axis		Maximum speed	Moving range
Motion radius	1000mm	J1 axis S	J1+J2	$\pm 135^\circ$
Power capacity	3.0KVA	J2 axis L	11520mm/s	$\pm 150^\circ$
Max payload	Rated 10KG/Max 25KG	J3 axis U	2020mm/s	420mm
Repeatability	$\pm 0.025\text{mm}$	J4 axis R	720°/s	$\pm 360^\circ$
Robot mass	66KG	Input/Output signals		Standard 16 in/16 out 24 VDC
Built-in air tube	$\phi 8$	Mounting position		Floor



### Installation Environment

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

### Control cabinet specifications

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

#### Serial port I/F

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

#### Altitude

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

#### Others

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

### Teach pendant specifications

External dimensions	280(width)*220(depth)*120(height)mm (with protrusions)
Gross weight	0.6KG
Material	Reinforced plastics
Display	8 inch color LED, 640*480 pixels
Protection class	IP54
Cable Length	Standard 6m. Optional: 8m, 10m, 15m

#### Manipulator

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



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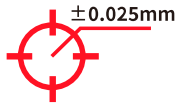
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# SPECIFICATIONS

## TECHNICAL SPECIFICATION



Max payload



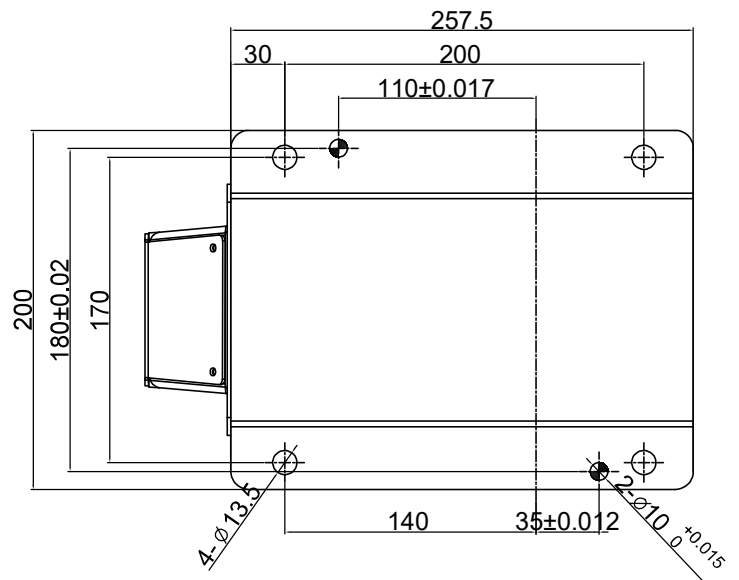
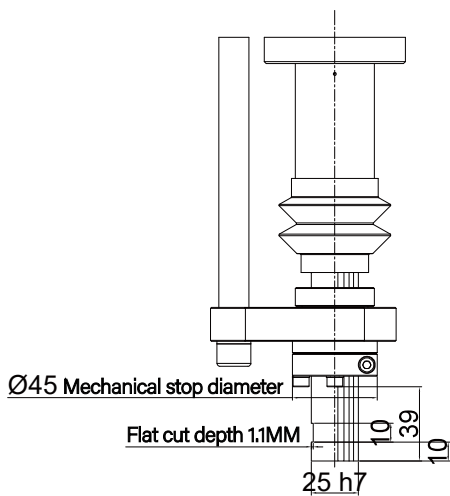
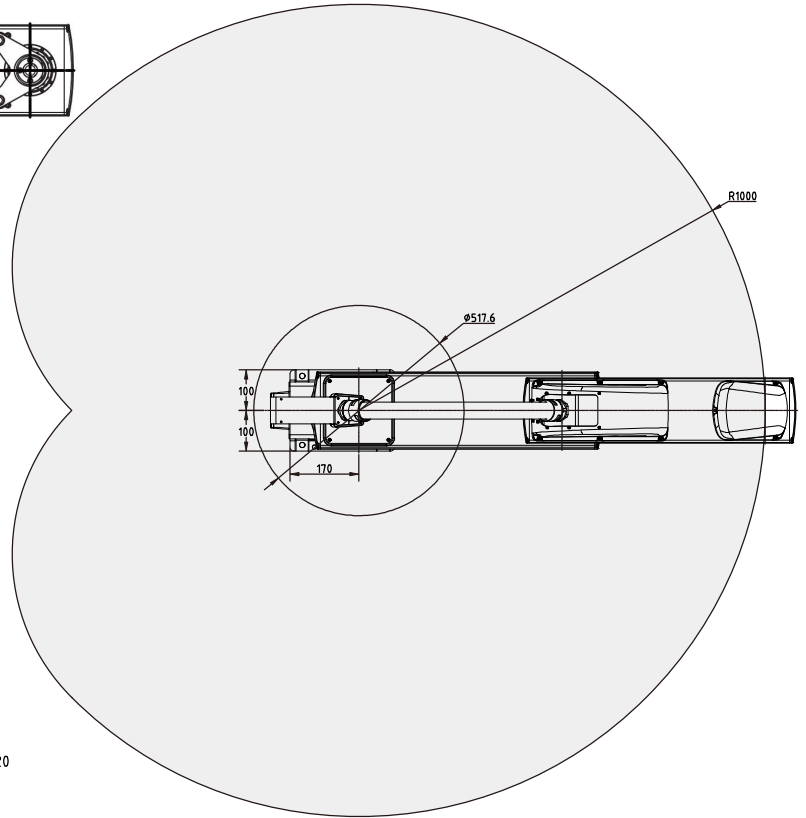
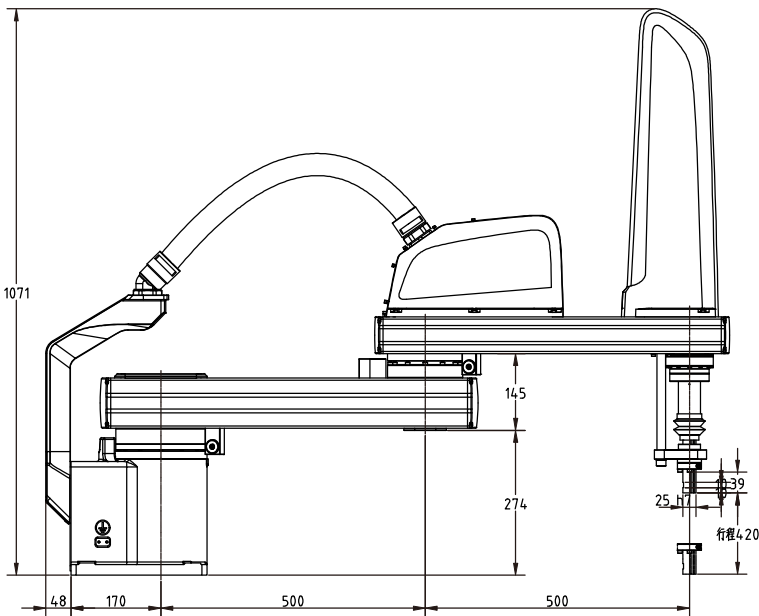
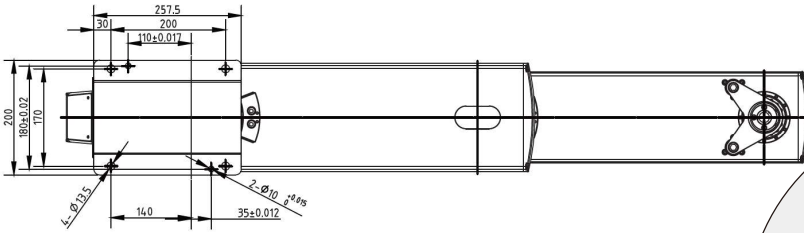
Repeatability



Moving range

External dimensions and moving range ◀

P moving range ◀



End flange installation dimensions ◀

Base installation dimensions ◀