

Higher Precision



Higher Protection Level(IP67)



Higher Speed



Better Price Performance



Moka Robot is a high-tech robot manufacturer providing high quality industrial robots and solutions to our customers. As one of the earliest companies who manufactures industrial robots, we offer professional, timely service and complete robot application solutions. Our robot system is highly stable and mature. After years of development, our products are widely used in industrial automation applications such as welding, painting, handling, palletizing and polishing, both in China and the global market. Our industrial robots are developed by our company with independent intellectual property rights. The motion of each joint of the robot is realized by high performance servo motors and a high precision reducers. The core advantages of our industrial robots include: cost-effective, compact structure, highly reliable, high speed, high precision, easy to operate and easy to maintain. For details, please visit www.mokarobot.com.

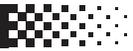
Honorary qualifications

The grid displays 20 patent certificates issued by the National Intellectual Property Administration (CNIPA). The certificates are organized as follows:

- Row 1:**
 - 1. Invention Patent Certificate (发明专利证书), No. 20171086266.9, Title: 一种工业机器人末端执行器 (A kind of industrial robot end effector).
 - 2. Patent Registration Record Book (专利登记簿副本), No. 20171086266.9, Title: 一种工业机器人的末端执行器 (A kind of industrial robot end effector).
 - 3. Copyright Certificate (计算机软件著作权登记证书), No. 2017SR0422283, Title: 工业机器人末端控制软件 V1.0 (Industrial robot end control software V1.0).
 - 4. Utility Model Patent Certificate (实用新型专利证书), No. 20172145966.7, Title: 一种工业机器人末端执行器 (A kind of industrial robot end effector).
 - 5. Utility Model Patent Certificate (实用新型专利证书), No. 20172145966.7, Title: 一种工业机器人末端执行器 (A kind of industrial robot end effector).
- Row 2:**
 - 6. Invention Patent Certificate (发明专利证书), No. 20171086266.9, Title: 一种工业机器人末端执行器 (A kind of industrial robot end effector).
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 - 20. Invention Patent Certificate (发明专利证书), No. 20171086266.9, Title: 一种工业机器人末端执行器 (A kind of industrial robot end effector).

MB SERIES

SCARA ROBOTS



MB04SC-300



MB04SC-400



MB10SC-500



MB10SC-600



MB10SC-700



MB10SC-800



MB25SC-800



MB25SC-900



MB25SC-1000

MB SERIES

SMALL 6-AXIS ROBOTS



MB04S-580



MB10S-740



MB10S-920

MB SERIES

GENERAL 6-AXIS ROBOTS



MB20-2100



MB35-1870



MB45-1870



MB180-3200



MB210-2650



MB280-2650



MR10C-1488



MR30C-1750



MR10W-1440-D



MR12-2010



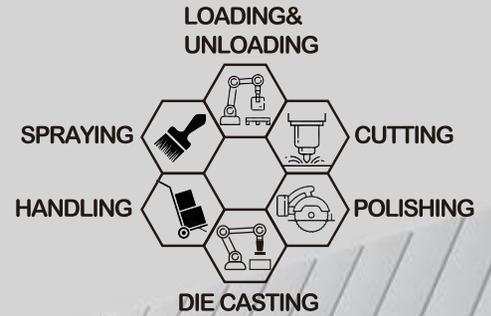
MR12Z-1550



MR80E-2250



MR60E-2680



Number of axis	6-axis		Maximum speed	Moving range
Motion radius	1870mm	J1 axis S	202°/s	±180°
Power capacity	8.0KVA	J2 axis L	211°/s	+98°~-160°
Max Payload	45KG	J3 axis U	210°/s	+200°~-80°
Repeatability	±0.03mm	J4 axis R	420°/s	±200°
Robot mass	286KG	J5 axis B	285°/s	±130°
Built-in air tube	Φ8	J6 axis T	410°/s	±360°
Protection class	IP54/IP67	J4 axis R(N.m)	Axis 4 R (N.m)	103
Input/Output signals	Standard 16 in/16 out 24 VDC	J5 axis B(N.m)	Axis 5 B (N.m)	103
Mounting position	Floor/frame/ceiling	J6 axis T(N.m)	Axis 6 T (N.m)	100



Installation Environment

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

Control cabinet specifications

Overall dimension	700(width)*530(depth)*740(height)mm (with protrusions)
Approximate mass	100KG
Cooling method	Natural cooling
Power specifications	3PH AC380V 50/60HZ (with built-in 380V~220V isolated transformer)
Grounding	Industrial grounding (dedicated grounding, resistance 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



Please read the user manual and relevant documentations before use.
 Contact official staff or distributor of MOKA if there are any errors, faults or if the robot is a harm to human safety.
 All data, drawings and specifications provided in this catalog are purely for information purposes and do not constitute a guarantee of these characteristics. The extent of goods delivered and services performed is determined by the subject matter of the specific contract. No liability accepted for errors or omissions.

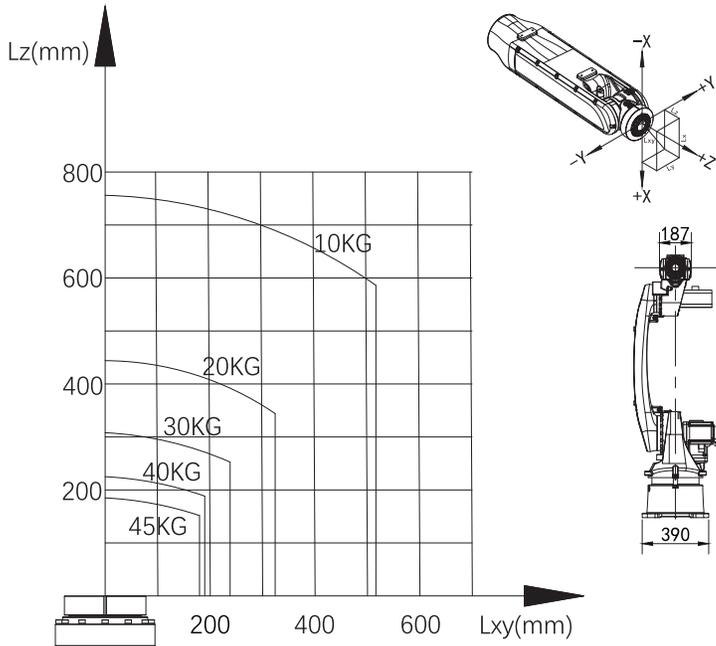


SPECIFICATIONS

TECHNICAL SPECIFICATION

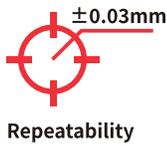
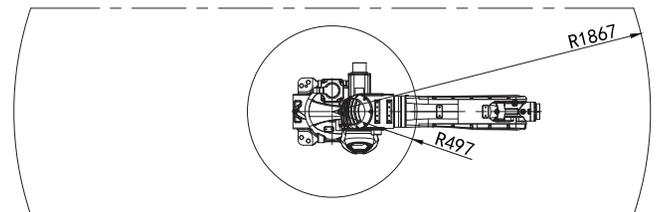
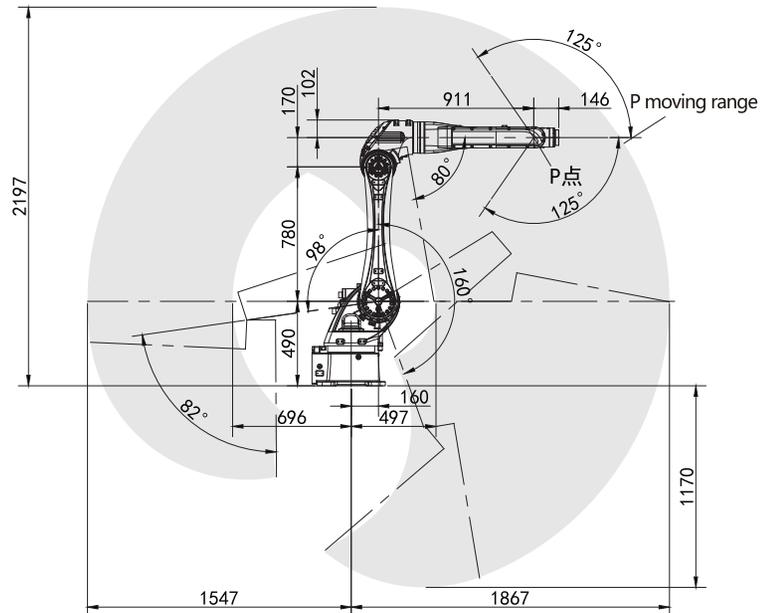
Robot payload diagram

External dimensions and moving range



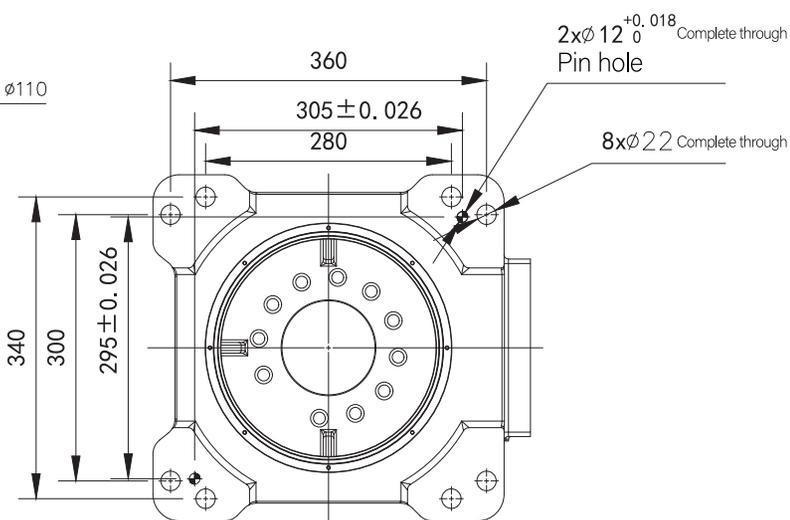
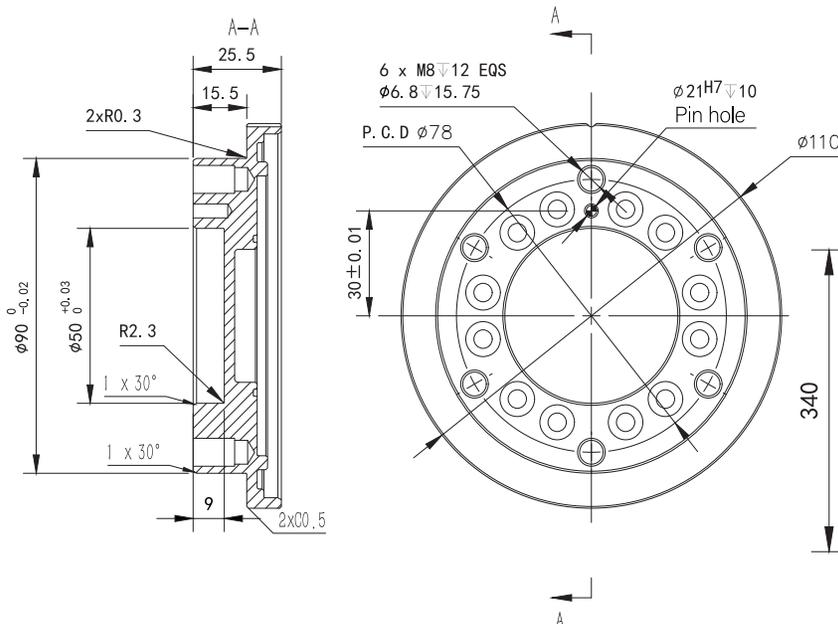
P moving range

Dimension style: ISO-25



Dimension style: Flange dimension

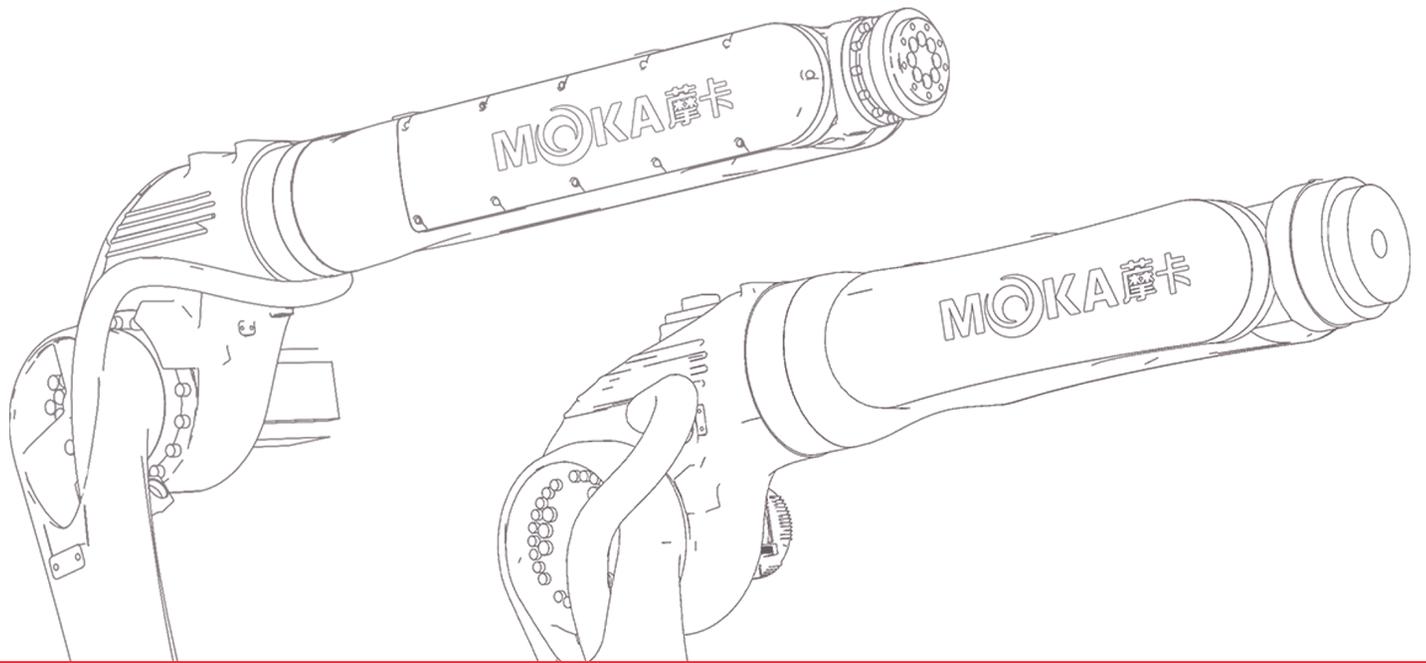
Dimension style: Installation drawing



End flange installation dimensions

Base installation dimensions

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



MOKA 摩卡

Committed to providing customers with
the most valuable products

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