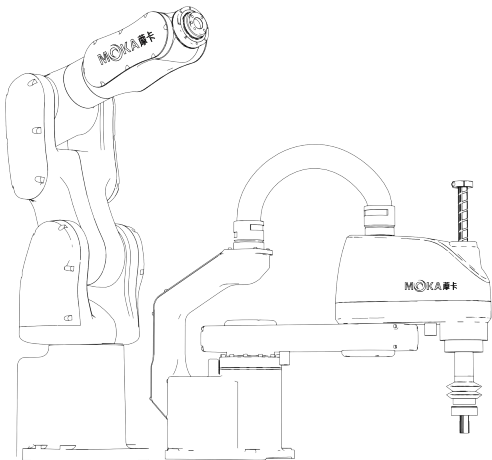


# MOKA

Industrial Robot Series

Industrial  
**Robot**  
Series



Higher Precision



Higher Protection Level(IP67)



Higher Speed



Better Price Performance

V8.4



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](http://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.
  - 3. Copyright Certificate (计算机软件著作权登记证书), No. 2017SR0422283, Title: 工业机器人关节控制软件 V1.0 (Industrial robot joint control software V1.0).
  - 4. Utility Model Patent Certificate (实用新型专利证书), No. 20172149866.7, Title: 一种工业机器人关节控制软件 (A kind of industrial robot joint control software).
  - 5. Utility Model Patent Certificate (实用新型专利证书), No. 20172149867.1, 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).
  - 7. Patent Registration Record Book (专利登记簿副本), No. 20171086266.9.
  - 8. Utility Model Patent Certificate (实用新型专利证书), No. 20172149866.7, Title: 一种工业机器人末端执行器 (A kind of industrial robot end effector).
  - 9. Utility Model Patent Certificate (实用新型专利证书), No. 20172149867.1, Title: 一种工业机器人末端执行器 (A kind of industrial robot end effector).
  - 10. Utility Model Patent Certificate (实用新型专利证书), No. 20172149868.4, Title: 一种工业机器人末端执行器 (A kind of industrial robot end effector).
- Row 3:**
  - 11. Utility Model Patent Certificate (实用新型专利证书), No. 20172149866.7, Title: 一种工业机器人末端执行器 (A kind of industrial robot end effector).
  - 12. Utility Model Patent Certificate (实用新型专利证书), No. 20172149867.1, Title: 一种工业机器人末端执行器 (A kind of industrial robot end effector).
  - 13. 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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  - 15. 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).
- Row 4:**
  - 16. Utility Model Patent Certificate (实用新型专利证书), No. 20172149866.7, Title: 一种工业机器人末端执行器 (A kind of industrial robot end effector).
  - 17. Utility Model Patent Certificate (实用新型专利证书), No. 20172149867.1, Title: 一种工业机器人末端执行器 (A kind of industrial robot end effector).
  - 18. 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).
  - 19. 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).
  - 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



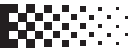
MB25SC-900



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

# MB10SC-500

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

**MOKA**



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

MADE BY MOKAROBOT

### Installation Environment

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

### Control cabinet specifications

Overall dimension	386(width)*445(depth)*225(height)mm (no protrusions)
Approximate mass	19KG
Cooling method	Natural cooling
Power specifications	1PH 220V 50/60HZ
Grounding	Industrial grounding (dedicated grounding, resistance below 100Ω)
Input/Output signal	General signal: 16 input, 16 output
Position control method	Serial communication EtherCAT.TCP/IP
Memory capacity	JOB: 200000 steps, 10000 robot commands (total 200M)
LAN(Host link)	Ethercat(1pc) TCP/IP(1pc)
Control mode	Servo position control
Ambient temperature	In use: 0~ + 45°C, In storage: - 20~ + 60°C
Driver unit	AC servo system (4-axis)
Relative humidity	10%~90%(no condensing)
Vibrate	Below 0.5G

#### Serial port I/F

RS232/RS422/RS485(1pc) RS232(1pc) RJ45 Port(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 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

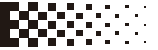


**ATTENTION**

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

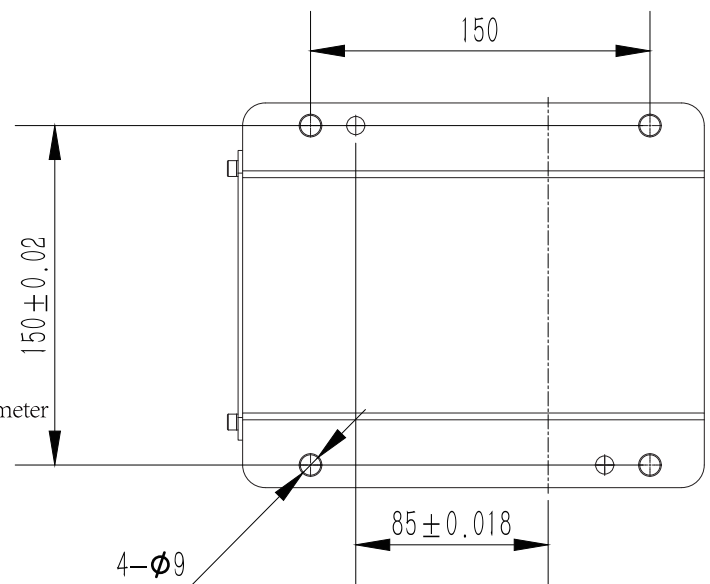
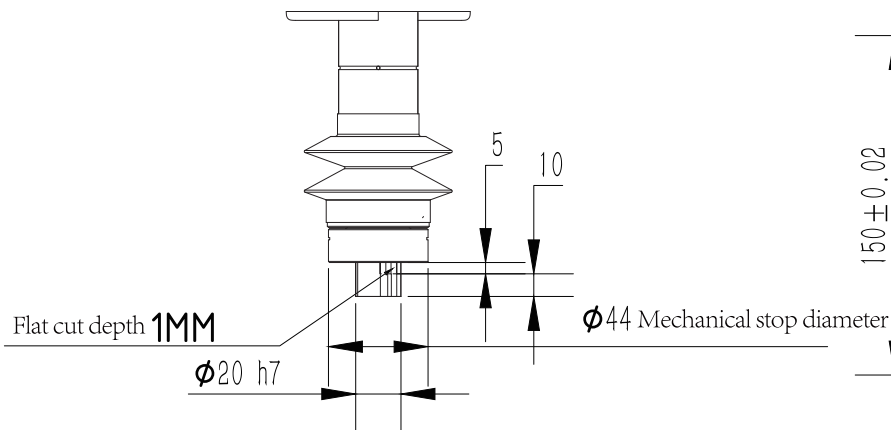
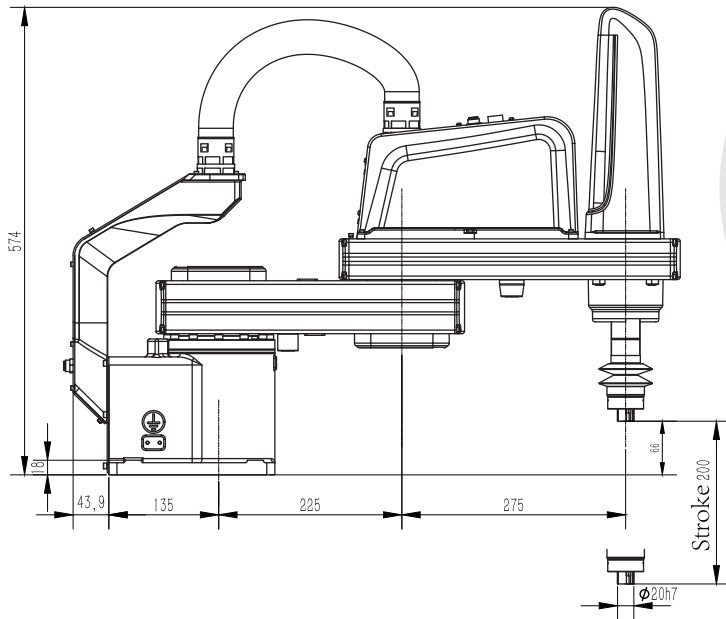
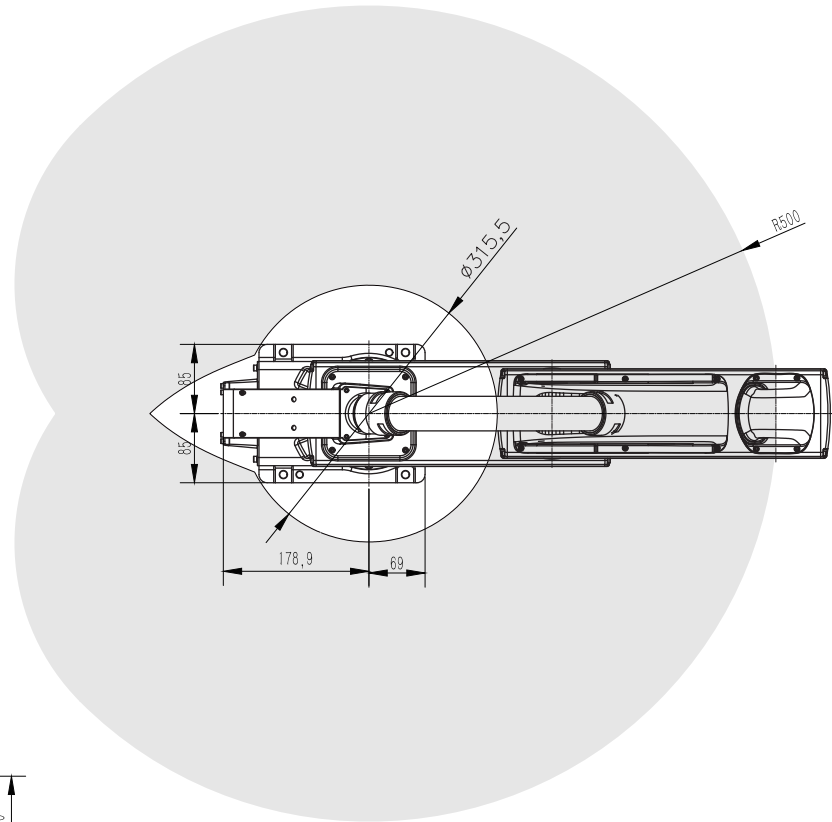
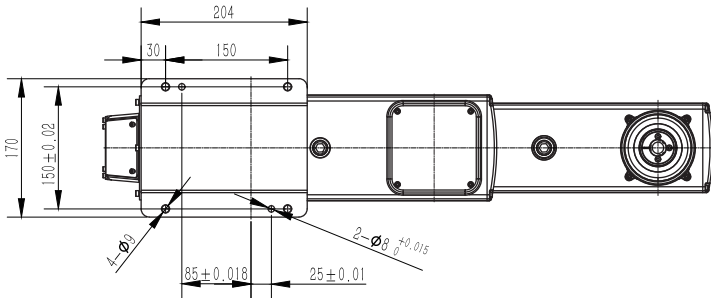
**10KG**  
Max payload

$\pm 0.02\text{mm}$   
Repeatability

500mm  
Moving range

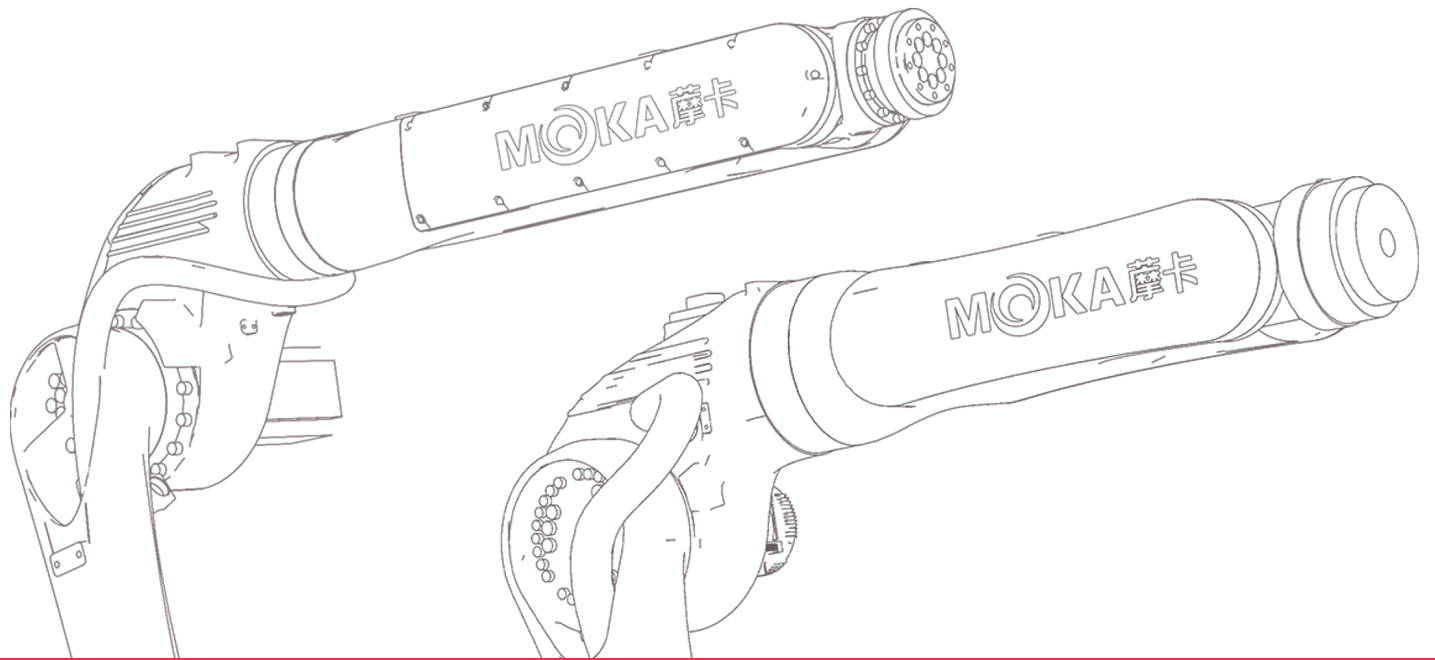
External dimensions and moving range

P moving range



End flange installation dimensions

Base installation dimensions



# MOKA 摩卡

Committed to providing customers with  
the most valuable products

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