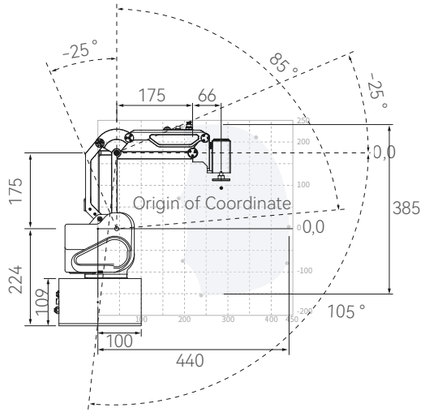
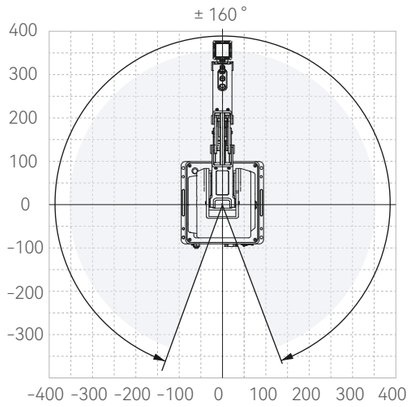
# Product Specifications




| Model | MG400 | |
|---|---|---|
| Number of Axes | 4 | |
| Payload | 500 g (Max 750 g) | |
| Working Radius | 440 mm | |
| Repeatability | ±0.05 mm | |
| Range of Motion | J1 | ±160° |
| | J2 | -25° to 85° |
| | J3 | -25° to 105° |
| | J4 | -360° to 360° |
| Maximum Joint Speed | J1 | 300°/s |
| | J2 | 300°/s |
| | J3 | 300°/s |
| | J4 | 300°/s |
| Power | 100 to 240V AC, 50/60 Hz | |
| Rated Voltage | 48V DC | |
| Power Consumption | 150W | |
| Communication Interface | TCP/IP, Modbus TCP | |
| Installation Orientation | Desktop | |
| Weight | 8 kg | |
| Base Dimensions | 190 mm × 190 mm | |
| Working Environment | 0° to 40° C | |
| Software | DobotStudio Pro, SCStudio | |

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# DOBOT MG400

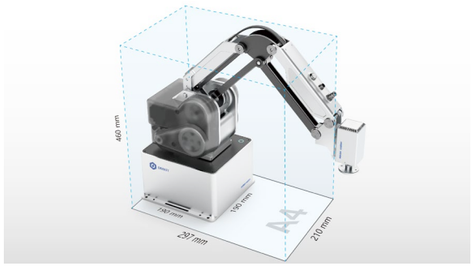
## Desktop Grade Robotic Arm

# DOBOT MG400

The MG400 is a lightweight desktop grade robotic arm with a footprint smaller than a piece of A4 paper. Designed to be flexible to deploy, easy to use, and safe to collaborate, the MG400 makes automation affordable and accessible for diversified and small-batch production scenarios. Featuring 750 g payload, 440 mm maximum reach, drag-to-teach and collision detection, the MG400 is perfect for lightweight desktop applications and fast deployment into production lines.

## Desktop Grade Compact

The MG400 has a compact design that integrates the control box into the machine body with just 190 mm x 190 mm footprint to be easily integrated into any production environment. Any space that fits a piece of A4 paper, the MG400 is good to go.




## Industrial Grade Performance

The MG400 is equipped with servo motors with a high-precision absolute encoder, a proprietary servo drive and controller, achieving a repeatability of ±0.05 mm.

With the vibration suppression algorithm deployed at the controller level, under the condition of ensuring the space trajectory accuracy of the robot's multi-axis motion, the repeatability bandwidth stabilization time is accelerated by 60%, and the residual vibration is reduced by 70%.

## Simplicity Means Productivity

The design concept of simplicity is integrated into every dimension of the robot, making it much easier for small and medium-sized enterprises to start automation.

**Shorter deployment time:**
Integrated and compact design with plug-and-play accessories, the MG400 is flexible and easy to deploy.

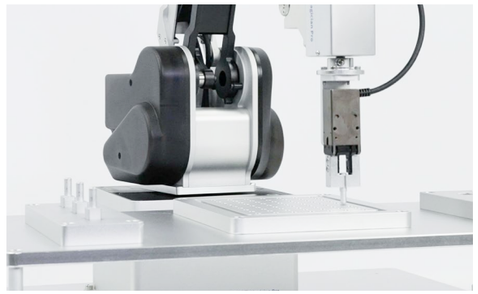

Step 1


Step 2

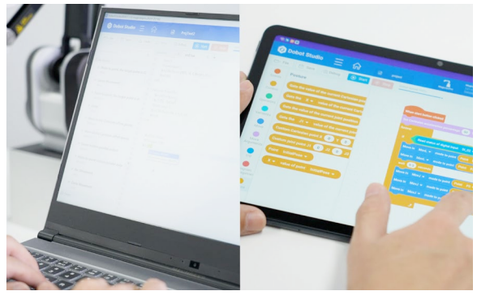

Step 3


Step 4

**More programming options:**
With drag-to-teach, graphical programming, and Lua script programming, operators of different levels of programming skills can easily master the MG400.



**Higher programming efficiency:**
Intuitive programming interface and guided-interactive design greatly improve the programming efficiency and lower the threshold of robotics applications.



**Higher debugging efficiency:**
Supported by the robot dynamicgravity compensation algorithm, the MG400 hand-held teaching is smooth, easy and efficient, reducing the teaching time during robot programming by up to 80%.