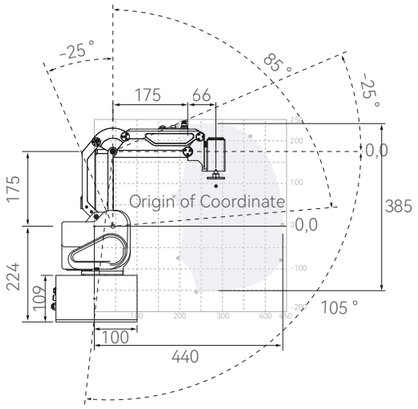
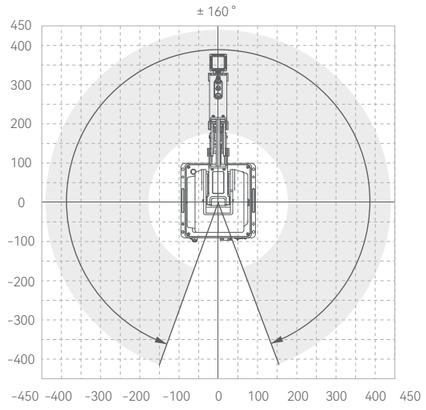
Product Specifications





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	J1：75W， J2：50W， J3：50W， J4：30W	
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	

DOBOT

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DOBOT MG400

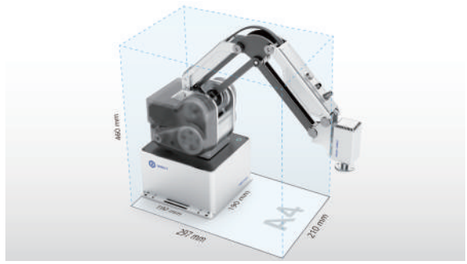
Desktop Grade Robotic Arm

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

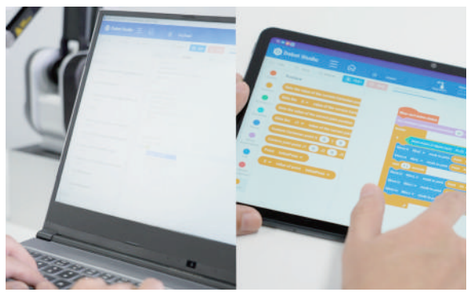
Step 2

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%.