DOBOT

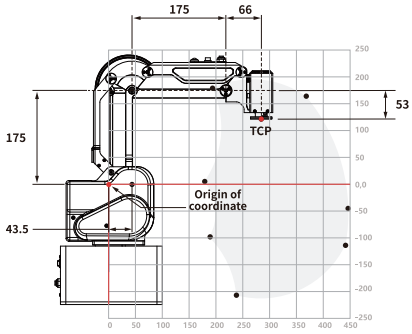
DOBOT MG400

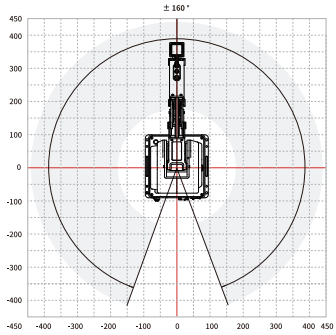
LIGHTWEIGHT DESKTOP
COLLABORATIVE ROBOT

MG400 is a lightweight desktop robot with a footprint smaller than one piece of A4 paper. Designed to be flexible to deploy, easy to use, and safe to collaborate, Magician Pro makes automation affordable and accessible for diversified and small-batch production scenarios. Featuring 750g payload, 440mm maximum reach, hand-held teaching and collision detection, Magician Pro truly fits perfectly for lightweight desktop applications and fast deployment in the production line.

Specifications

Product Name		DOBOT MG400
Product Name		DT-MG-P4R07-01I
Degree of Freedom		4
Payload		500g (Max 750g)
Reach		440mm
Repeatability		±0.05mm
Joint Ranges	J1	±160°
	J2	-25 ° ~ 85 °
	J3	-25 ° ~ 105 °
	J4	-360°~360°
Joint Maximum Speed	J1	300 ° /s
	J2	300 ° /s
	J3	300 ° /s
	J4	300 ° /s
Power		100~240V AC, 50/60 Hz
Nominal Voltage		48V
Nominal Power		150W
Communication Interface		TCP/IP, Modbus TCP
Installation Way		Counter
Weight		8kg
Base Size		190mm × 190mm
Working Environment		0 °C ~40 °C
Software		DobotStudio Pro , SCStudio





Small Space Occupation

MG400 adopts a compact design that integrates the controller into the machine body with a 190mm*190mm footprint, which can be easily integrated into any production environment. Any space that is smaller than one piece of A4 paper, MG400 is good to go.

Professional Performance

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

With the vibration suppression algorithm deployed in 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 apply automation.

Shorter deployment time: integrated & compact design, flexible & easy to deploy, plug and work.

More programming options: offering trajectory reproduction, graphical programming, and Lua script programming, which are ideal for applications of different complexity and developers with different programming skills.

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

Higher debugging efficiency: supported by the robot dynamic gravity compensation algorithm, Magician Pro' s hand-held teaching is smooth, easy and efficient, reducing the teaching time during robot programing up to 80%.

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