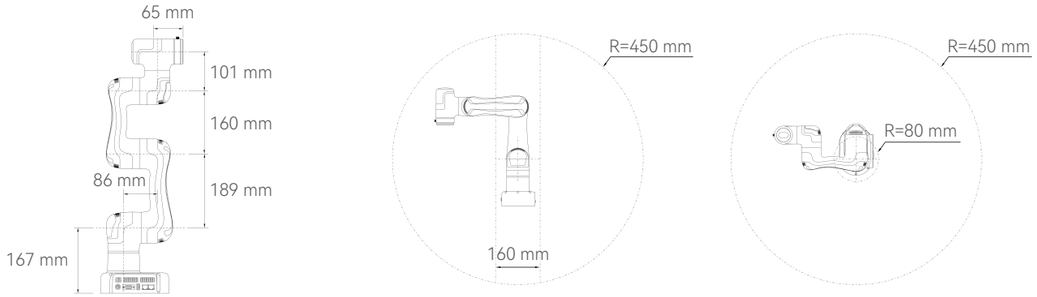
Product Specifications



Model		Magician E6
Weight		7.2 kg
Number of Axes		6
Payload		500 g
Working Radius		450 mm
Repeatability		± 0.1 mm
Maximum Speed of TCP		0.5 m/s
Range of Motion	J1	± 360°
	J2	± 135°
	J3	± 154°
	J4	± 160°
	J5	± 173°
	J6	± 360°
Maximum Joint Speed		120° /s
Power		100V ~ 240V AC, 50/60 Hz
Rated Voltage		48V DC, 5A
Power Consumption		130W
Communication Interface	Ethernet	2, for TCP/IP and Modbus TCP
I/O Interface	Arm Tip	DI x 2, DO x 2, 24V x 1, GND x 1
	Base	DI x 16, DO x 16, 24V x 4, GND x 4
I/O Power		24V, Max 2A, Max 0.5A for each channel
External Interface		EMO x 1, ABZ encoder x 1, Power connector x 1
Control Software		DobotStudio Pro
IP Rating		IP20
Base Dimensions		162 mm x 120 mm x 103mm
Working Environment		Temperature: 0° to 40° C. Humidity: 25 to 85% noncondensing
Noise		60dB (A)
Installation Orientation		Desktop
Materials		Aluminum alloy, ABS plastic

*Product models, specifications and technical indicators are subject to change without prior notice.

DOBOT

www.dobot-robots.com
sales@dobot-robots.com
linkedin.com/company/dobot-industry
youtube.com/@dobotarm
Floor 9, 10, 14, 24, Building 2, Chongwen Garden Nanshan iPark, Liuxian Avenue, Nanshan District, Shenzhen, China

D230317

DOBOT Magician E6

Desktop Cobot for Education and Research

DOBOT Magician E6

The DOBOT Magician E6 is a desktop grade 6-axis cobot designed for education and scientific research. It has an industrial grade performance and is compatible with a wide range of accessories made for industrial use. It can accurately simulate various automation scenarios to provide immersive learning and research experiences. The Magician E6 has a number of interfaces for secondary development and tailored course materials on robotics education, opening doors to a new way of education. It is the ideal platform to explore AI, smart manufacturing and other fields of study.

Product Features

High Level Of Safety

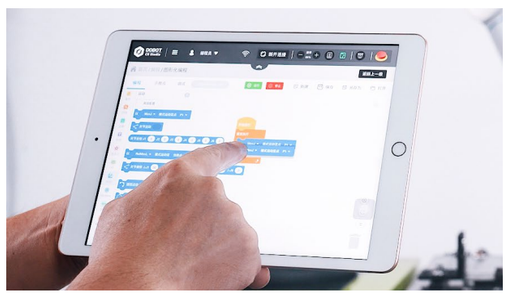
Streamlined body design with collision detection for safer operation. Equipped with a light indicator ring for easy monitoring of Magician E6's operating status.

Simple Deployment

Compact, lightweight and flexible, the Magician E6 can be effortlessly installed on a desk. Built-in control box simplifies external wiring for a plug-and-play experience.

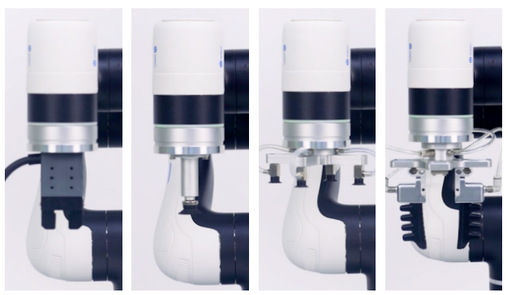
Easy to Use

Proprietary trajectory replay technology allows for no code drag-to-teach programming of Magician E6. Supports graphical programming. Anyone can easily learn and master Magician E6 operation.



Flexible and Expandable

The Magician E6 can be programmed and controlled using ROS, Matlab, Labview and C++, and has interface ports making secondary development possible and efficient. Compatible with industrial grade suction cups, grippers, slide rails and other accessories to enable more possibilities.



Academic Resources

Dobot has created innovative educational materials including instruction booklets and lesson tutorials. Industrial applications are also translated into education cases to seamlessly bridge the technical training required by many automation jobs, thereby enabling academic institutions to foster the next generation technical talents.

Course Materials

Intro to Robotics and Programming

This basic course is suitable for beginners to learn about the design and operations of industrial robots and how they can be programmed for automation.

Industrial Application Simulations

This intermediate course contains simulations of Industry 4.0 application scenarios to allow for practical training and teaching in related fields such as robotics, engineering, automation and mechatronics.

Advanced Robotic Theory and Research

This advanced course teaches students to develop motion control algorithms, simulations and control logic for research purposes using ROS, Matlab, Python and C++.