GATEIN TECHNOLOGY
جيت ان تكنولوجي

PRODUCT PRESENTATION · EDUCATION & RESEARCH

DOBOT
Magician E6

Desktop Cobot for Education and Research



Magician E6 Overview

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.

The ideal platform to explore AI, smart manufacturing and other fields of study.



Magician E6 Key Figures

6 AXES	500 g PAYLOAD	450 mm WORKING RADIUS
±0.1 mm REPEATABILITY	0.5 m/s MAXIMUM TCP SPEED	7.2 kg WEIGHT

01

Magician E6

Product Features

- High Level of Safety
- Simple Deployment
- Easy to Use
- Flexible and Expandable



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Magician E6 Safety & Deployment

01 High Level of Safety

Streamlined body design with collision detection for safer operation. A light indicator ring makes the operating status easy to monitor.

02 Simple Deployment

Compact, lightweight and flexible, it installs effortlessly on a desk. The built-in control box simplifies external wiring for a plug-and-play experience.



Magician E6 Easy to Use



01 Drag-to-Teach

Proprietary trajectory replay technology allows no-code programming by hand.

02 Graphical Programming

Anyone can easily learn and master Magician E6 operation.

03 DobotStudio Pro

Control software for programming and operating the arm.

Magician E6 Flexible & Expandable

Interface ports make secondary development possible and efficient. Compatible with industrial grade suction cups, grippers, slide rails and other accessories.

ROS | Matlab | Labview | C++






02

Magician E6

Course Materials

- Intro to Robotics and Programming
- Industrial Application Simulations
- Advanced Robotic Theory and Research



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Magician E6 Curriculum

Instruction booklets and lesson tutorials translate industrial applications into education cases, bridging the technical training required by many automation jobs.

BASIC

Intro to Robotics and Programming

For beginners: the design and operation of industrial robots and how they are programmed for automation.

INTERMEDIATE

Industrial Application Simulations

Industry 4.0 scenarios for practical training in robotics, engineering, automation and mechatronics.

ADVANCED

Advanced Robotic Theory and Research

Motion control algorithms, simulations and control logic for research, using ROS, Matlab, Python and C++.

Magician E6 Industrial Simulations

The Magician E6 accurately simulates automation scenarios, providing immersive learning and research experiences.

Industrial grade accessories turn a desk into a working model of a production line.



Magician E6 Specifications

PERFORMANCE

Number of Axes	6
Payload	500 g
Working Radius	450 mm
Repeatability	± 0.1 mm
Maximum Speed of TCP	0.5 m/s
Maximum Joint Speed	120° /s
Weight	7.2 kg
Installation Orientation	Desktop
Materials	Aluminum alloy, ABS plastic

SYSTEM

Power	100V ~ 240V AC, 50/60 Hz
Rated Voltage	48V DC, 5A
Power Consumption	130W
Control Software	DobotStudio Pro
IP Rating	IP20
Base Unit Dimensions	162 × 120 × 103 mm
Temperature	0° to 40° C
Humidity	25 to 85% noncondensing
Noise	60dB (A)

Magician E6 Joints & Interfaces

RANGE OF MOTION

J1	J2	J3
± 360°	± 135°	± 154°

J4	J5	J6
± 160°	± 173°	± 360°

INTERFACES

Communication	Ethernet × 2, for TCP/IP and Modbus TCP
I/O · Arm Tip	DI x 2, DO x 2, 24V x 1, GND x 1
I/O · 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

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

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