DOBOT Magician
All-in-One Robot for Education

PART#: P120132

Open up new possibilities for learning activities and make your lessons come to life.

- ✓ **One-Stop Solution for STEAM**
- ✓ **Teach Robotics**
- ✓ **Teach Coding**
- ✓ **3D Printer**

Dobot is the perfect tool for teaching STEAM. It can 3D print, pick & place, draw, teach coding, and help build a solid foundation in the all important and emerging discipline of robotics.

This is the most user-friendly robotic arm on the market, and can be controlled with multiple methods such as PC, phone, gesture, and voice.

By simply changing the plug-in tools, the multi-purpose robot can draw with remarkable ±0.2mm precision, or even become a 3D Printer!

This one robot, with its many extensions, is a highly cost-effective and entertaining educational tool. Its multiple abilities make it the perfect companion to any STEAM lesson.

SPECIFICATIONS

Number of Axes	4
Payload	500g
Max Reach	320mm
Position Repeatability (Control)	0.2 mm
Communication	USB /WIFI / Bluetooth
Power Supply	100V - 240 V, 50/60 Hz
Power In	12 V / 7 A DC
Consumption	60W Max
Working Temp	-10°C-60°C

AXIS MOVEMENTS

Axis	Range	Max Speed
Joint 1 base	-135° to +135°	320° / s
Joint 2 rear arm	0° to +85°	320° / s
Joint 3 forearm	-10° to +95°	320° / s
Joint 4 rotation servo	+90° to -90°	480° / s

TOOLS

|	
3D printer Kit	Print Size: 150 ×150 × 150mm Material: PLA Resolution: 0.1mm
Pen Holder	Pen Diameter : 10mm
Vacuum Suction Cap	Cap Diameter: 20mm Pressure: -35 Kpa
Gripper	Range: 27.5mm Drive Type: Pneumatic Force: 8N

PHYSICAL

Weight	4KG
Base Dimension	158mm × 158mm
Materials	Aluminium Alloy 6061, ABS Engineering Plastic
Controller	
Robot Mounting	Dobot Integrated Controller Desktop
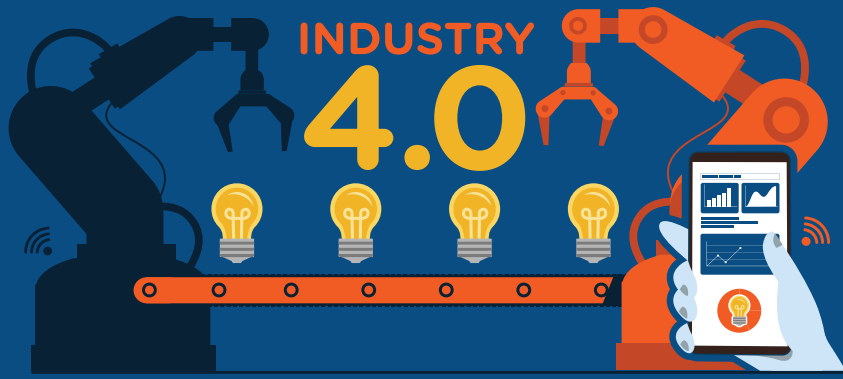
INDUSTRY 4.0

WHAT IS INDUSTRY 4.0?

Industry 4.0 is the **fourth industrial revolution**, and it is happening now!

The first industrial revolution emerged in the 18th Century, and saw the advent of factory production.

This was followed by the second industrial revolution, which revolved around mass production.

In the 20th Century, the third industrial revolution came with electronics, I.T. systems and automation.

We are now part of the emerging fourth industrial revolution, which is powered by digital transformation.

Tools for Schools and Dobot are passionate about helping your students be the leaders of this revolution.

DOBOT PERIPHERALS

CONVEYOR BELT KIT

PART #: P120812

The Conveyor Kit for DOBOT Magician makes it possible to own a complete simulated production line. The powerful and programmable DOBOT Magician, when combined with conveyor belt of adjustable speed, distance and color sensor, is the ideal and perfect tool for you to create a highly effective simulated production line, or even to apply to actual factory application scenarios.

*Dobot Sold Separately

Includes: Conveyor belt, Photoelectric switch, Colour sensor, Foam blocks

LINEAR RAIL KIT

PART #: P120813

An additional metre unlocks endless possibilities! With the sliding rail kit, the working space of DOBOT Magician can be fully extended to enable it to do large-scale tasks, such as long-distance picking and placing, a larger range of writing, or drawing.

*Dobot Sold Separately
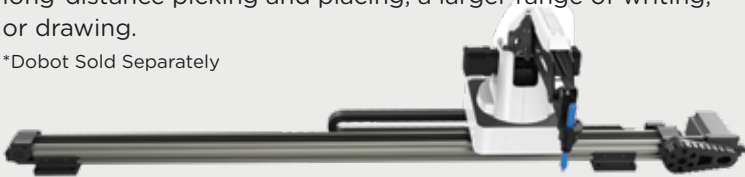
Includes: Sliding Rail, Tool Kit, Wire Set

DOBOT ROBOT VISION KIT

PART #: P122659

DOBOT Robot Vision Kit provides a basic software and hardware platform based on visual development. With the advantages of rich functions, stable performance, and convenient operation, it perfectly meets the needs of visual applications including visual positioning, measurement, detection, and recognition. Abundant teaching demos including color recognition, barcode recognition, character recognition, measurement, calibration, alignment, image processing, etc., are provided along with the Dobot Vision Studio to help users understand the basics and operation principles of the Dobot Robot Vision Kit clearly and intuitively. *Dobot Sold Separately

IMAGINE THE POSSIBILITIES