## DOBOT Magician

# EDUCATIVE INDUSTRIAL ROBOT



DOBOT Magician is a multifunctional desktop robotic arm for practical training education. Installed with different end-tools, DOBOT Magician can realize interesting functions such as 3D printing, laser engraving, writing and drawing. It supports secondary development by 13 extensible interfaces and over 20 programming languages, which really makes your creativity and imagination increase without any limitation.



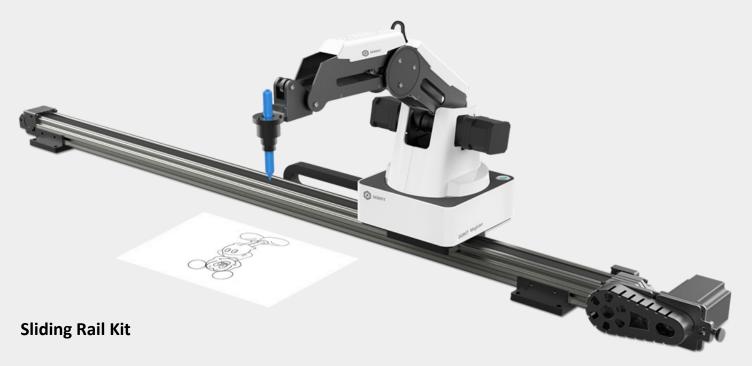
DOBOT Magician is compatible with multiple accessories such as linear rail kit, conveyor belt kit, visual kit, and crawler robot to apply different training projects. What's more, multiple applications and training curriculum are available. An open platform for robot education like Industrial 4.0, Automation, PLC, etc. With a fair and reasonable price, DOBOT Magician has 0.2mm repeatability which can simulate almost all real factory robot applications.





**Control Tech** 





1 more meter working range brings you endless possibilities! With the sliding rail kit, the working space of Dobot Magician can be fully extended. It can do large-scale tasks, such as long-distance picking and placing, a large range of writing, drawing or laser engraving.



#### **Conveyor Belt Kit**

The Conveyor Kit for Dobot Magician makes you have a complete production line simulation. Conveyor belt with adjustable speed, distance and color sensor, combined with the powerfuland programmable Dobot Magician, these are the ideal essentials for you to create a highly effective simulated production line, or even to apply to actual factory scenes.

#### **Robot Vision Kit**

The Robot Vision Kit provides a basic set of hardware platform for robot vision system development. You can set up the vision kit with Dobot Magician and start to learn how to integrate vision system with robot automation system. With the system, you can also do some researches on vision, artificial intelligence algorithm-simulation, or develop vision based industrial applications.



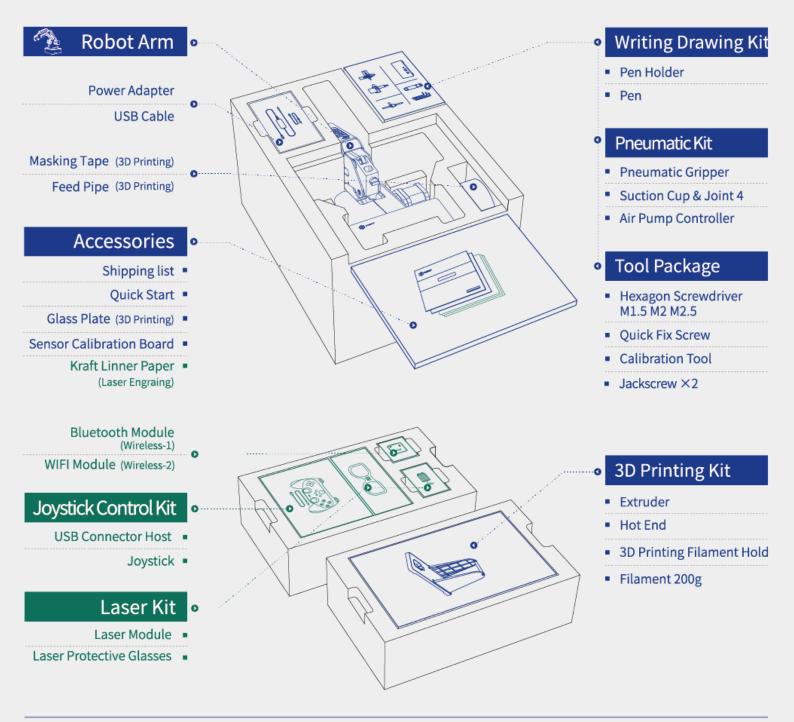








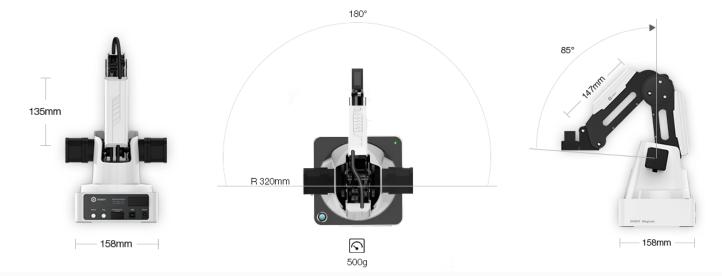




All accessories painted with blue color in the above drawing are included in the BASIC VERSION. while accessories painted with green color are additional for EDUCATIONAL VERSIC

\*Because of the package upgrade, what you've received may be different from the shown picture (the product itself does not hany changes). Please note that the actual product you receive shall prevail. Thank you!

Items	Contents
1. Dobot Magician	Robot Arm I USB Cable I Power Adapter
2. Vacuum pump Kit ( Share JOINT 4 )	Air Pump Kit I M1 Hexagon Wrench
3. Gripper	Gripper
4. Writing and Drawing Kit	Writing and Drawing Kit ( Pen holder & Pen )
5. 3D Printing Kit	Extruder I Hot End I Printing Filament : PLA ( 100g/35m ) I
	AluminiumIplate / Glass I Masking Tape
6. Bluetooth Module	Bluetooth Module ( with cables )
7. Other Accessories	Kraft Linner Paper 20g*5/pc   User Manual   Pamphlets   Calibratic Paper
8. WIFI Module	WIFI Module
Laser Engraving Kit (Laser Engraving & Gray Engraving)	Laser Kit I Laser Protective Glasses
10. Joystick Control Kit	SB Connector Host I Joystick



### DOBOT Magician Specifications

Degree of freedom		4
Maximum load		500 g
Maximum reach		320 mm
Repeatability		0,2 mm
Communication interface		USB (Wi-Fi, Bluetooth)
Voltage		100~240 V, 50~60 Hz
Power input		12 V, 6,5 A
Power		60 W
Working temperature		-10°C to +60°C
Software		DobotStudio, DobotBlockly, Repetier Host,
SDK (Software Development	Kit)	Dobot Program Library, Communication Protocol
Extensible I/O Interface		10x I/O 4x output 12 V 2x stepper motor interface
Axis 1 - Base	-90° to 90°	320°/s
Axis 2 - Rear arm	0° to 85°	320°/s
Axis 3 - Front arm	-10° to 95°	320°/s
Axis 4 - Tool rotation	-90° to 90°	480°/s
Weight		3,4 kg
Weight of package (Standard Version)		7,2 kg
Weight of package (Educational Version)		8,0 kg
Material		Aluminum Alloy 6061, ABS Engineering Plastic
Rozměr balení (D x Š x V)		380 mm x 385 mm x 480 mm