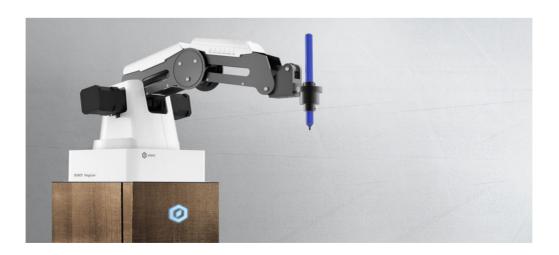


## **Dobot Magician - Advanced Educational Plan**SKU 110090101



# Dobot Magician

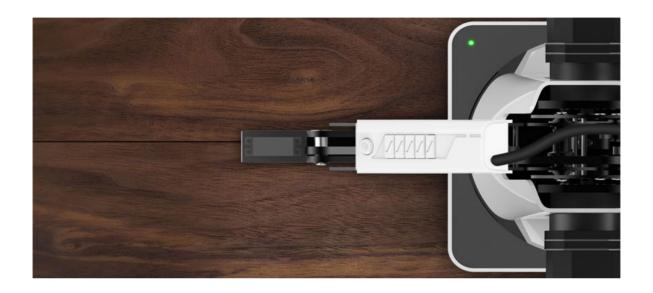
### **SHAKE HANDS WITH FUTURE**



### Wisdom in shapes & colors

Black & white body with consistent quality at fingertips Unibody design, unbox and enjoy right away

Designed for desktop, safe and easily lifted



### Most user-friendly robotic arm

Thoughtful details integrated in simple design







### **Controlling methods**

Multiple controlling method, enjoy anytime

PC, phone, gesture, voice, even brainwave can be used to control Dobot Magician.



#### Handhold teaching

#### Handhold teaching, repeat your tasks with just a click

The handhold teaching feature lets you control a robotic arm without any limits. The most intuitive interaction bringing the best of your efficiency.



#### End tool quick switch

End tool quick switch, it's never been so smooth

With the standardized plug-in style end tool holder, you can switch end tools by simply screwing.



#### **Operation software**

**Dobot Studio, one big step of interaction** 

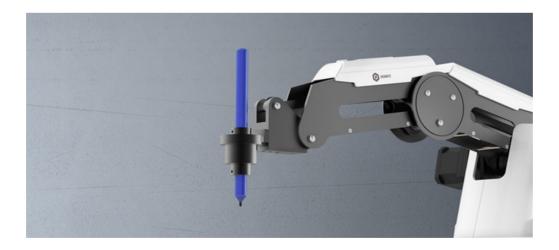
Integrated so many features, while making it easier to control a robotic arm.

A whole set of parameters for your customization. Calibrate your own robotic arm without any coding!



### **Draw like magic**

Dobot Magician supports BMP, SVG and DXF ±0.2mm precision, laying perfect strokes Powerful laser engraving, handling wood and leather with ease

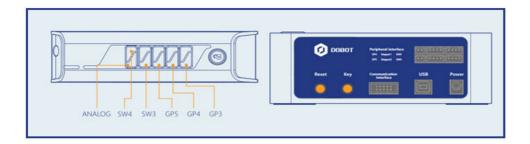


### Develop, and be ahead

Endless potential, fast deployment. Be ahead of the game.

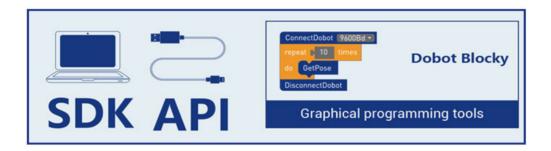
#### **Rich extension ports**

13 extension ports, 1 programmable key, 2MB offline command storage, endless possibilities for developers



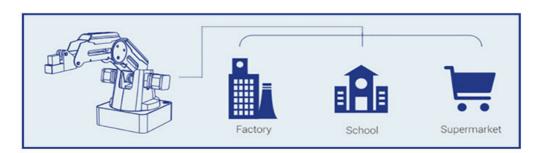
#### Visualized programming

Visualized programing interface, just pile up the blocks and there's the code, the easiest way to learn coding. Support major programing languages including C++, C#, Python and java, with API and pre-set modules integrated.



#### **Fast deployment**

Easy to use, fast to deploy, affordable maintenance... A highly cost effective solution for small businesses



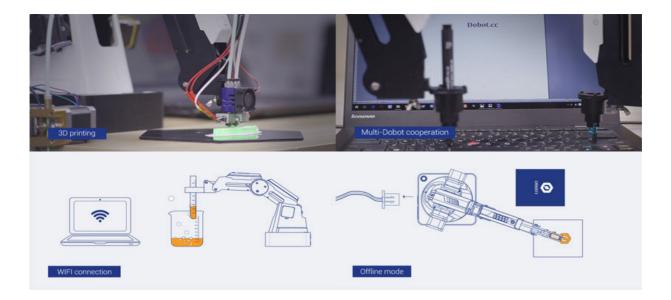
### Not only that

The Dobot Magician has every feature to blow you away

3D printing WIFI connection

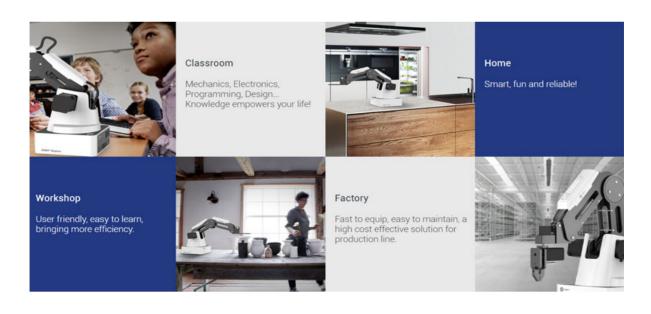
Multi-Dobot cooperation

Offline mode



### **Future lifestyle**

One robot, many extensions, a highly cost effective solution
Enhanced human-machine cooperation, bringing efficiency to daily life
Technology influencing education in most entertaining ways
Living rooms, classrooms, workshops, factories...the future life is right ahead
the future life right ahead



### **Specification**

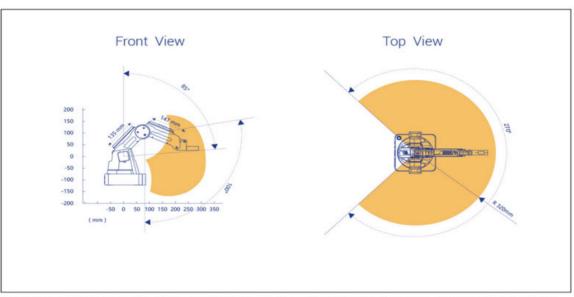
Specifications Specifications Specifications Specifications Specifications Specifications Specification Specificat				
Number of Axes	4			
Payload	500 g			
Max. Reach	320mm			
Position Repeatability(Control)	0.2 mm			
Communication	USB /WIFI */ Bluetooth			
Power Supply	100V - 240 V, 50/60 Hz			
Power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

Axis Movement				
Axis	Range	Max Speed(250g workload)		
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		

Physical			
Weight	4KG		
Base Dimension(Footprint)	158mm × 158mm		
Materials	Aluminum Alloy 6061, ABS Engineering Plastic		
Controller	Dobot Integrated Controller		
Robot Mounting	Desktop		
Packing Size (L × W × H)	307mm × 224mm × 330mm		

Applications		
Software	DobotStudio, Repetier Host, GrblController3.6, DobotBlockly (Visual Programing editor,	
SDK (Software Develop Kit)	Communication Protocol, Dobot Program Library	
Extensible I/O Interfaces	1. I/O × 10 (Configurable as Analog Input or PWM Output)	
	2. Controllable 12V Power output × 4	
	3. Communication Interface (UART, Reset, Stop, 12V, 5V and two I/O included)	
	4. Stepper × 2	

Endeffectors			
3D printer Kit	Print Size (L × W × H)	150 mm ×150 mm × 150mm	
	Material	PLA	
	Resolution	0.1mm	
Laser*	Power Consumption	500mw	
	Туре	405 nm (Blue laser)	
	Power	12V, TTL trigger (With PWM Driver)	
Pen Holder	Pen Diameter	10mm	
Vacuum Suction Cap	Cap Diameter	20mm	
	Pressure	-35 Kpa	
Gripper	Range	27.5mm	
	Drive Type	Pneumatic	
	Force	8N	



Note: Above information is for reference only and subject to change without prior notice. Items marked with \* are optional kits, not inclueded in default package.

### **Part List**

- Robot Arm
- Gripper
- 3D Printing Kit
- Laser Engraving Kit
- Joystick Control Kit
- Vacuum pump Kit
- Writing and Drawing Kit
- Bluetooth Module
- Wi-Fi Module
- Leap Motion

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