DOBOT

ALL-IN-ONE ROBOT EDUCATION

DOBOT PRODUCT CATALOG

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About DOBOT

Founded in 2015, DOBOT is a global leading technology solution provider for all-in-one robot education, focusing on the development of all-perceptive intelligent robotic arms that integrate perception and interaction. DOBOT was named one of the world's 80 most valuable robot companies by CB Insights; ranked among the Hurun Top 100 Most Valuable New Star Enterprises in China, and the top 80 of artificial intelligence companies in 2018.

In terms of qualification and patents, DOBOT has passed ISO9001 quality management system, ISO14001 environmental management system and GB/T29490 intellectual property management system certification. DOBOT has always adhered to independent innovation. Up to December 2018, it has more than 379 intellectual property rights in the field of robotics, including 9 international invention patents (PCT), 249 Chinese patents, 39 software copyrights, and 82 registered trademarks, covering the world's top 40 economies.

DOBOT has already established cooperative relationships with Oxford University, University of Technology Sydney, McMaster University (Canada), Johnson & Wales University (USA), Tsinghua University, Harbin Institute of Technology and other well-known universities at home and abroad to open maker spaces, perform research activities and intelligent logistics, intelligent irrigation, and other laboratory projects. Based on its powerful all-in-one intelligent robot education platform, DOBOT promotes the development of artificial intelligence and robotics in universities and vocational schools, providing a broad platform for the development of robot education to bridge the gap between education and industry needs for AI and robot talents.

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Product System

PRODUCT	POSITIONING	APPLICATION AREA
DOBOT Magician	Lightweight Intelligent Training Robotic Arm	Practical Training Education, STEAM Education, Research and Teaching
DOBOT MOOZ	Multifunctional Modular 3D Printer	Research and Teaching, STEAM Education, Maker
DOBOT M1+AGV	Secondary Experimental Development Platform	Laboratory, vocational school, university, research institute
DOBOT AI-Starter	Entry-level Artificial Intelligent Education Robot	K12 Education, STEAM Education

DOBOT Magician

Lightweight Intelligent Training Robotic Arm

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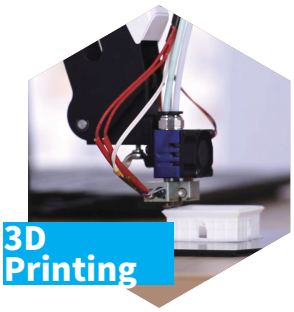
What Is DOBOT Magician?

DOBOT Magician is a multifunctional desktop robotic arm for robot training education. Equipped with different end-tools, DOBOT Magician can fulfill abundant functions including 3D printing, laser engraving, writing and drawing. It supports secondary development by 13 extensible interfaces and over 20 programming languages, which unleashes your creativity and imagination without limitation. Thanks to its perfect performance both in hardware design and software application, DOBOT Magician has won the CES 2018 Innovation Award and iF Design Award 2018.

Features


3D Printing


Laser Engraving


Writing & Drawing


Handhold Teaching


Multiple Extension Ports


Graphic Programing

High Qualification Standards

Apply to all major international standards like CE, RoHS, ERP, FCC, KC, PSE, TELEC, etc.

Hands-On Experience For Everyone

Support various methods including Programming, APP, Bluetooth, Wi-Fi, mouse and more.

Support Secondary Development

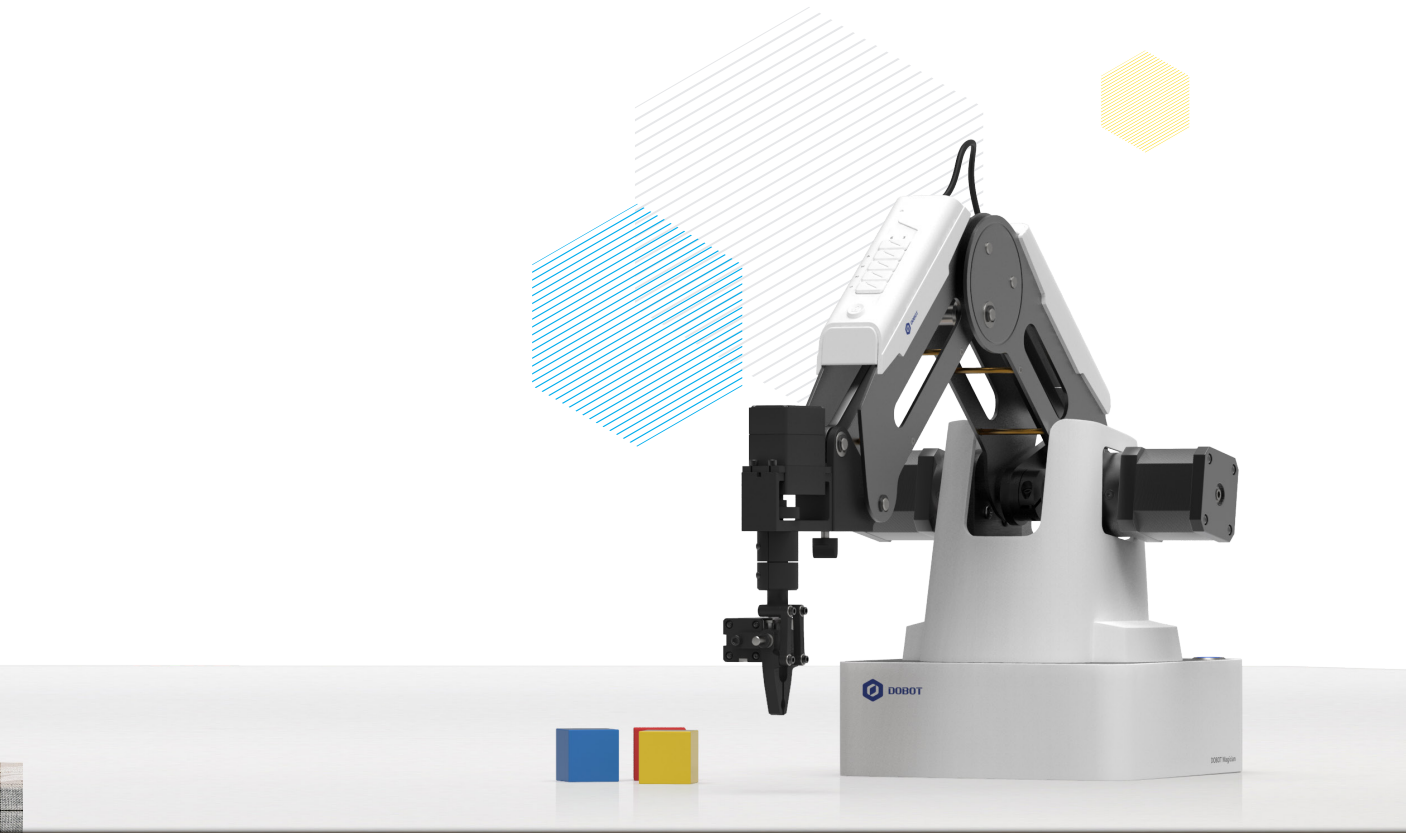
13 expanded I/O ports unlocks more possibilities of applications via DobotStudio software.

Free Combination Of Different Accessories

Compatible with multiple accessories: linear rail kit, conveyor belt kit, visual kit, and crawler robot. Choose the most suitable one at you will based on different needs of training projects.

Ideal Choice For Training Education

Rich training programs and complete curriculum system provides a broad platform for robot education development like big data applications, smart factories and Industrial 4.0.



DOBOT

Specifications

Number Of Axis	4
Payload	500g
Max. Reach	320mm
Position Repeatability(Control)	0.2 mm
Communication	USB / Wi-Fi / Bluetooth
Power Supply	100 V - 240 V, 50/60 HZ
Power In	12 V / 7A DC
Consumption	60W Max
Working Temperature	-10° C - 60° C

Axis Movement

Axis	Range	Max Speed (250g workload)
Joint 1 Base	-90° to + 90°	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

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

Physical

Net Weight	3.4KG
Gross Weight (Standard Version)	7.2KG
Gross Weight (Education Version)	8.0KG
Base Dimension (Footprint)	158mm × 158mm
Materials	Aluminum Alloy 6061, ABS Engineering Plastic
Controller	DOBOT Integrated Controller
Robot Mounting	Desktop
Packing Size (L × W × H)	330mm x 325mm x 410mm
Carton Size For Standard Version (L × W × H)	380mm x 385mm x 480mm
Carton Size For Education Version (L × W × H)	380mm x 385mm x 480mm

End effectors

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

ARDUINO ARTIFICIAL INTELLIGENCE SUITE

Entry-level Learning Kit for Artificial Intelligence

As an entry-level learning suite for AI, Arduino Artificial Intelligence Suite features Arduino Mega 2560 control board, LED indicator, joystick, switch button, voice and visual recognition modules. Plentiful courses are provided to help children get started quickly to control the robot arm via programing and easily grasp the basic knowledge of AI, thus cultivating their innovative thinking and understanding of the open source creative culture!

Specifications

DfRduino mega2560 V3 (compatible with arduino mega 2560)

Microcontroller	ATmega2560
Operating Voltage	5V
Input Voltage (recommended)	7V-12V
Input Voltage(range)	6V-20V
Digital I/O Pins	54 (of which 15 provide PWM output)
Analog Input Pins	16 I/O
DC Current per I/O Pin	50 mA
DC Current for 3.3V Pin	50 mA
Flash Memory	256 KB of which 4KB used by bootloader
SRAM	8 KB
EEPROM	4 KB
Clock Speed	16MHz

Pixy CUMcam5

Processor	NXP LPC4330, 204MHz, dual-core
Image Sensor	Omni vision OV9715, 1/4", 1280x800
Image Sensor:	75 degrees horizontal, 47 degrees vertical
Lens Type	standard M12 (several different types available)
Power Consumption	140 mA
Power Input	USB Input (5V) or unregulated input (6V to 10V)
RAM	264K bytes
Flash	1M bytes
Available Data Outputs	UART serial, SPI, I2C, USB, digital, analog
Size	2.1" x 1.75" x 1.4"

Pixy CUMcam5

Keycap Color	Red, Green, Blue
Supply Voltage	3.3V - 5V
Data Type	Digital
Size	22mm x 30mm

LED Module

Color	Red, Green, Blue
Brightness	2500mcd to 3300mcd Highlight output
Voltage	3.3V-5V
Wavelength	520nm - 530nm
Angle	80° - 110°
Size	30mm x 20mm
Weight	5g

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Linear Rail Kit

Make Your Robot Go Further

A working range of one additional meter 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, drawing or laser engraving.

Specifications

Payload	5 kg
Effective Travel Distance	1000 mm
Maximum Speed	150 mm/s
Maximum Acceleration	150 mm/s^2
Repeat Positioning Accuracy	0.01mm
Absolute Positioning Accuracy	0.25mm
Net Weight	4.7KG
Weight (Including Packing)	7.23KG
Dimension(Length × Width × Height)	1320mm × 120mm × 55mm

Conveyor Belt Kit

Simplest Mini Production Line

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.

Specifications

Conveyor Belt

Payload	500 g
Effective Delivering Distance	600 mm
Maximum Speed	120 mm/s
Maximum Acceleration	1100 mm/s^2
Net Weight	4.2 kg
Weight (Including Packing)	5.34 kg
Dimension	700 mm × 215 mm × 60 mm

Distance measuring sensor unit

Measurable Range	20 ~ 150 mm
Signal	Analog Output
Input	4.5 - 5.5 V

Color recognizing sensor unit

Input	3~5 V
Detectable	non-glowing object
White LED	embedded, on/off controllable

DOBOT Vision Kit

Eyes for the Robot

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.

Specifications

HD Color Industrial Camera

Product Number	JHSM300f
Sensor Size	1/2’ CMOS
Sensor Type	MT9T001
Effective Pixel	3 million
Hue	colour
Pixel Size	3.2x3.2um
Frame Rate / Resolution	12 @2048×1536
Filter	650nm

SNR	42dB
Dynamic Range	61dB
Shutter Type	Curtain exposure
Time Of Exposure	50.8um– 3329ms
Exposure Control	auto/manual
Size	40x45x45mm
Data Interface	USB2.0
Working Temperature	0 ~ 70°C

White auxiliary light source

Product Number	JHZM-A40-W
Luminous Color	white
Led Number	48 LED
Illumination	40000lux
Brightness	Continuously adjustable, color temperature remains constant under 0 ~100% adjustable range
Wavelength	455– 457.5nm
Output Voltage	12 V
Output Power	3.5 – 5 W
Operating Distance	35 – 110mm
Size Specification	internal diameter: 40mn,external diameter: 70mm,height: 25mm
Outer Diameter Of Lamp Barrel	MaxΦ39mm
Weight	0.48KG
Working Environment	Temperature: 0 ~ 40°C , humidity: 20~85%RH
Storage Environment	Temperature: -20 ~ 40°C , humidity: 20 ~85%RH

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16mm Focus Lens

Type	M1614-MP2				
Focus	16mm				
Maximum Ratio Of The Diameter Of A Lens To Its Focal Length	1:1.4				
Maximal Image Size	8.8mm×6.6mm(ϕ11mm)				
Working Range	Aperture	F1.4-F16C			
	Focus point	0.3m-Inf			
Control	Aperture	Manual			
	Focus point	Manual			
Object Size	16.5(H)cm×12.4(V)cm 2/3”				
Visual Angle	D	2/3"	38.0°	1/2"	28.2°
	H		30.8°		22.7°
	V		23.4°		17.1°
Working Temperature	-20°C -+50°C				
Resolution Rate	At the center and edge, more than 100 (line /mm)				
Deformation Rate	2/3"	-0.1%(y=5.5)			
	1/2"	-0.3%(y=4.0)			
Back Focus	13.1mm				
Length Of Flange Lining	17.526mm				
Lens Mount	C mount				
Filter Size	M30.5P+0.5mm				
Size	ϕ 33.5mm×28.2mm				
Weight	65g				
Operating Distance (Mm)	300	250	200	150	100
Optical Magnification	0.05 X	0.06 X	0.08 X	0.10 X	0.15 X
Expanding Ring(Mm)	Null	0.5	0.5	1.0	1.5

DOBOT MOOZ

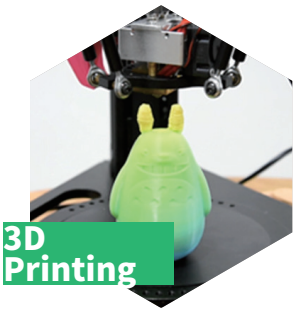
Multifunctional Modular 3D Printer

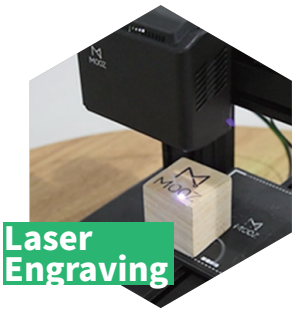
WHAT IS DOBOT MOOZ?

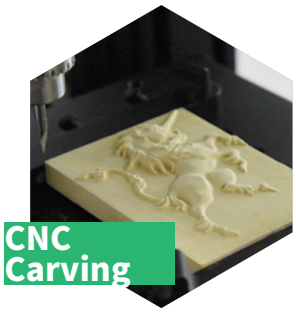
DOBOT MOOZ is a versatile modular 3D printer that can be used to perform 3D printing, laser engraving and CNC carving by simply replacing the end tool. All-metal design with industrial grade linear guides and precise motors ensures its stability and precision. Both 3 types of MOOZ come with a mobile app and a glass hot bed and supports Wi-Fi and auto-resume function.

The modular design allows MOOZ to be quickly assembled into three different modes including single-axis, two-axis and three-axis in 30 minutes. Even beginners can quickly produce various creative works. It won the 2018 Red Dot Award and the 2018 iF Design Award for its outstanding product design.

Functions







Types

MOOZ-1 (Single-axis)

Simple and exquisite, most cost-effective
Support 3D printing and laser engraving

MOOZ-3 (delta)

Super high efficiency
Born for color-mixing printing

MOOZ-2 (two-axis)

Great stability and high precision
Support 3D printing, CNC carving and laser engraving

ALUMINUM ALLOY BODY, EXTRAORDINARY SENSE OF TOUCH

MOOZ is cast with aircraft-grade aluminum alloys, which not only adds beauty and elegance to the body, but also increases its stability and reduces vibrations during the working process.

LINEAR GUIDEWAY, MORE ACCURATE REPEATABILITY

MOOZ applies industrial-grade linear guideway, stepper motor and screw rod to make sure the accuracy of every slight move. The position repeatability of MOOZ is up to 0.02mm, satisfying your printing requirements to the fullest.

UNIQUE MODULAR DESIGN, EASY TO OPERATE & MAINTAIN

Thanks to the modular design of MOOZ, it only takes 10 minutes to assemble and start using. Besides saving money, modular design makes operation, maintenance and development much easier.

EASY-TO-USE CONTROLLER, START CREATING BY ONE CLICK

MOOZ is equipped with a microcomputer controller accompanied with a screen display. When connected to a thumb drive or a SD card, you can directly use the controller to operate and start printing, sparing you the trouble to connecting a computer.

ALL-AROUND SAFETY MEASURES TO KEEP YOU SAFE

For laser engraving kit, MOOZ provides professional protective shield box and safety glasses to 100% guarantee your security.

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Specifications

Parameters

Overall Dimensions	285 * 285 * 318mm
Adapter Input	100-240V~50/60Hz, 1.8Amax
Adapter Output	12V~6.5A
Main Material	aircraft-grade aluminum
Operation Panel	3.5’ LCD touch pad

Laser Engraving

Working Range	X130 * Y130mm
Laser Power	0.5W
Supported Materials	wood, paper products, some plastics, leather, etc.

3D Printing

Nozzle Diameter	0.4 mm (0.6mm for MOOZ-3)
Layer Resolution	0.05~0.3 mm
Nozzle Temperature	190~260°C
Heated Bed Temperature	50~100°C
Forming Size	X130 * Y130 * Z130mm
Applicable Materials	PLA, ABS , PC , FLEX
Printing Speed	10~80mm/s

CNC Carving

Spindle Idle Speed	12000rpm Max
Clamping Range Of CNC Chuck	0~4mm
Size Of Standard CNC Bit	3.175mm * 0.3mm * 30° flat bottom sharp cutter
Supported Materials	wood, plastics, PCB boards and most non-metallic materials

DOBOT M1 AGV+

A Secondary Experimental Development Platform
for Universities and Research Institutions

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WHAT IS DOBOT M1+AGV?

The DOBOT M1+AGV experimental development platform is an all-perceptive experimental platform that combines self-developed collaborative robots and intelligent mobile chassis. It can simulate various practical application scenarios, including target secondary positioning, logistics and material handling, path planning and automatic tracing. The platform can satisfy your conceptual understanding and experimental needs of industrial robots, AGV, MES and intelligent manufacturing by perfectly combining industry, university and research to achieve a seamless switch between the laboratory and the factory.

FEATURES

Highly Flexible Modular Design

The modular design of the hardware kits makes it easy to install and assemble. Users can select different modules according to specific teaching needs and talent training directions to facilitate the skill learning process of basic operations of the robot.

Support Secondary Development

Several expandable interfaces are reserved to support secondary development. Developed on a super open ROS platform, it can raise the students' imagination to a higher level.

Abundant Teaching Resources

Teaching modules such as basic teaching, path planning, object transporting and robot vision are provided to make it convenient for learning operation skills of industrial robots step by step.

Powerful Auto Navigation and Control

Combined with the environment perception, accurate mapping, positioning and navigation, safe obstacle avoidance, multi-point cruise and other functions carried by intelligent mobile robots, it can realize safe and efficient material capture and delivery in a wide range of space.

Specifications

Total Weight	**Size**	430*410*910mm
	Total Weight	50kg
Robot Arm	**Horizontal Range**	400mm
	Vertical Range	225mm
	Effective Payload	1.5Kg
Base	**Maximum Speed**	1.0m/s
	Cruise Time	3 hours
	Obstruction Clearance Altitude	8mm
	Mapping And Localization	Support
	Route Planning	Support
	Mobile App	Support
	Auto Charging	Support
	Three-Phase Dc Brushless Motor	2 (with a hall effect encoder)
	Laser Radar	1
	Ultrasonic Sensor	5
	Infrared Sensor	5
	Gyroscope	1

DOBOT AI-Starter

Entry-level Artificial Intelligent Education Robot

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WHAT IS AI-Starter?

Born for artificial intelligence learning, AI-Starter is an entry-level educational robot platform and an integrated robot learning suite integrating mechanism, electronic and programming. AI-Starter is compatible with Arduino motherboard. It has rich sensor modules, which can realize interesting functions such as patrol line and obstacle avoidance. It combines teaching and fun, which can enhance children's interest in learning robots. AI-Starter supports graphical programming. Children can easily get access to programming knowledge through simple drag and drop, thus to develop their logical thinking ability and train them to become the front runners in the era of artificial intelligence. Start your artificial intelligence learning with AI-Starter.

FEATURES

GRAPHICAL PROGRAMMING

With Arduino-compatible graphic programming software, children can learn programming knowledge intuitively and cultivate logical thinking ability easily.

SMART AUTOPILOT

With various built-in sensors including infrared patrol line, ultrasonic wave, color, photosensitive and geomagnetic sensors, AI-Starter can simulate automatic driving and realize auto tracking and avoiding obstacles.

AI TEACHING COURSES

Teaching materials and online tutorials about robot programming are provided for students to follow and assemble robot, build circuit and write program step by step.

VARIOUS EXTENDED INTERFACE WITH DIVERSE USES

AI-Starter provides XBEE, Bluetooth, universal I/O, serial port, I2C and other extended interfaces, allowing children to open their imagination and unlock more ways of application.

CHARGING WITH USB SOCKET

With a large capacity of 18650, the battery can be charged by simply connecting to a universal USB charger directly, which makes the battery more durable.

Specifications

Operating Voltage	7.4V	
Control Board	DuDuino Mega2560 (Compatible with Arduino Mega2560)	
MPU	ATmega2560	
Battery	18650 Li-ion rechargeable battery	
Ultrasonic Measurement Range	30mm-1000mm	
AI-Starter Size	195mm x 172mm x 79mm	
AI-Starter Weight	810g	
Maximum Load	500g	
Tire Diameter	67mm	
Operating Environment	0°C -40°C	
Programming Software	Arduino IDE, Mixly	
Communication Interface	USB communication / Serial communication	
Expansion Interface	4PIN general I / O interface x 2	
Sensor	Ultrasonic sensor x 3 / Color sensor x 2 / Infrared sensor / Geomagnetic sensor x 1 / Light sensor x 1	
Motor Parameters	Reduction ratio	48:1
	Voltage	7V
	No-load current	150mA
	Stall current	150mA
	Maximum rotate speed	200r/m
	Encoder resolution ratio	585pulse/r

University Education Program

University of Oxford

Project Date: November 2018

Country: London

Product: Several DOBOT Magician + Linear Belt Kit+ Conveyor Belt Kit+ DOBOT Vision kit

College Major: Artificial Intelligence, Internet of Things

Summary:

In order to better suit the future needs of AI and robot industry, Ajit Jaokar created a new course named Data Science for the Internet of Things (IoT) in Oxford University aiming to create a new kind of talents that integrate knowledge of IoT and AI to solve real and practical problems. Throughout the course, students will receive hands-on use of DOBOT, which allows them to explore multiple deep learning models such as neuro-linguistic programming (NLP), convolutional neural networks (CNN) and reinforcement learning (RL) via robots.

Besides the course, he also launched an AI Lab in London, where his team can explore specific robotics/ AI deep learning technologies using the DOBOT Magician, in a way to react to the technological trends and lead in the new AI era.

University of Technology Sydney

Project Date: February 2018

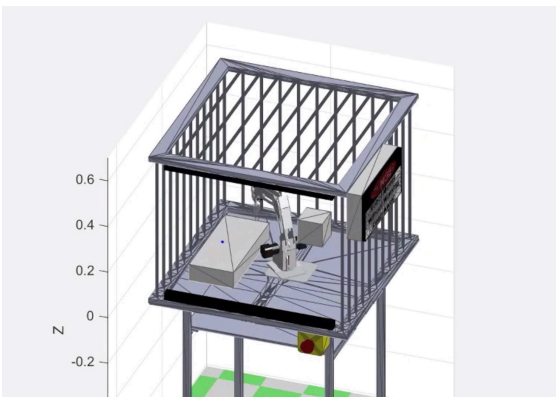
Country: Australia

Product: 20+ DOBOT Magician (Basic Plan)

College Major: Mechanical and Mechatronic Engineering

Summary:

Introduction to industrial robotics and the underlying algorithms and mathematics, theoretical and practical understanding on active/ passive sensing and feedback control techniques, ability to select and evaluate sensors, process the sensor data, and apply computer-based tools for practical control system design using the sensory information.



NIT Surathkal in India

Project Date: March 2018

Country: India

Product: 1 Dobot Magician + 1 Conveyor Belt Kit

College Major: Robotics Application

User Cases:
Research and Training

Robotics Application

Automation Technology

Robot operation, installation, debugging and maintenance

Vocational Education Program

Volkswagen Plant Simulation and Learning Factory

Organization Name: Volkswagen Academy

Project Date: September 2017

Country: Germany

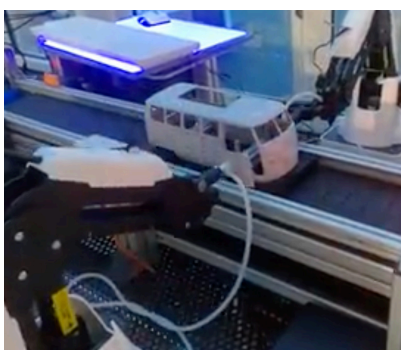
Product: 6 DOBOT Magician + 3 Linear Rail Kits

Use Cases: Volkswagen plant simulation and learning factory
Engineering, coding and programming with Robots
Picking and Placing

SUMMARY

Volkswagen has made a full production line simulating the real car assembly line, assembling a model bus. In each station, there is detailed screen demonstrating the real situation, where DOBOT Magician works perfectly. DOBOT Magician was utilized in Volkswagen production line with Siemens PLC to produce a bus. This case would be shown in the training of Volkswagen new workers. It will help show the process of intelligent welding and automatic installation in automated manufacturing simulated by DOBOT Magician.

1. DOBOT Magician is integrated with the PLC system inside.
2. DOBOT Magician works in multiple stations performing different functions.
3. The whole system is also very high tech.



CASES

FUJITSU IOTA and Industrial 4.0 Show with DOBOT Magician at Hannover Messe

Organization Name: Fujitsu

Project Date: 27-Apr-2018

Country: Global Category: Vocational Education Program

Product: 12 DOBOT Magician + several conveyer kits

Use Cases: Pick and place
Extra sensor connecting
Extra motor connecting
Programming

SUMMARY

FUJITSU needed intelligent, easy programming, reliable robot to display their IOTA system. DOBOT Magician showed in Fujitsu Booth to display industrial 4.0 IOTA showcase in Hannover Messe 2018, which granted over 4 million impression within 3 days.

K12 STEM Education Program

The DOBOT Robot Training Program for Jr. Astronauts

Organization Name: Barboza Space Center

Project Date: 08-Jul-2017

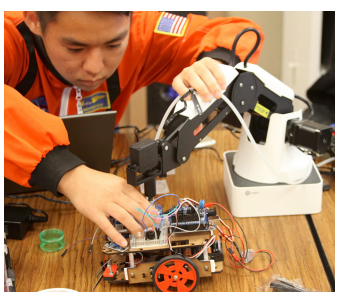
Country: United States

Product: 20 DOBOT Magicians

Use Cases: Experiments for Mars Projects & Tools for Occupy Mars
3D Printing Robot Parts & Laser Engraving ID Numbers
Picking and Placing Cargo & Multiple robots working together
Studying Robots for Mass Production
Robot Design, Building & Repair & Drawing Electrical Diagrams
Science Experiments & Tiger Team training tools

SUMMARY

Using DOBOT robots to train Jr. Astronauts, scientists and engineers. Ten students from the Long Beach Unified School District's CAMS (California Academy of Mathematics and Science) High School have received fellowships to study with Bob Barboza and his engineers and scientists working on building Tiger Teams for the Occupy Mars Learning Adventures STEAM++ Program. They have created customized software and training materials to integrate the new astronaut hardware and software tools. In the end, DOBOT Robots worked fine on Mars, allowing the students to make parts for other robots.



Advanced Manufacturing and Automation Application Case

Organization Name: Cazenovia High School

Project Date: June 2018

Country: United States

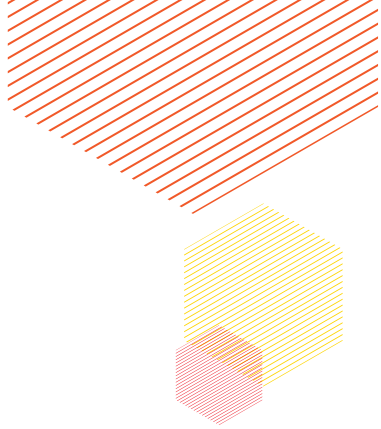
Category: K12 STEM Education Program

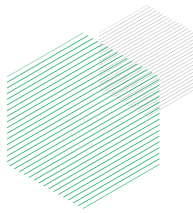
Product: 12 DOBOT Magicians & 2 Conveyors & 2 Vision Systems & 2 Slide Bases

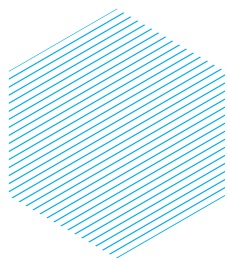
Use Cases: Pick and place
Palletization
Use of end effectors
Robotic programming
Robotic Inputs & Robotic Outputs
Vision System integration & Slide base integration
Factory simulation

SUMMARY

Using DOBOT robots to train Jr. Astronauts, scientists and engineers. Ten students from the Long Beach Unified School District's CAMS (California Academy of Mathematics and Science) High School have received fellowships to study with Bob Barboza and his engineers and scientists working on building Tiger Teams for the Occupy Mars Learning Adventures STEAM++ Program. They have created customized software and training materials to integrate the new astronaut hardware and software tools. In the end, DOBOT Robots worked fine on Mars, allowing the students to make parts for other robots.







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