DOBOT

DOBOT M1
SCARA COLLABORATIVE ROBOT ARM

DOBOT M1

Fast Deployment for Flexible Production

Equipped with a built-in controller, DOBOT M1 is highly compact and portable. It can be seamlessly integrated into any existing production and work cells to start work quickly, making it perfect for small batch, customized or flexible manufacturing.

Easy Programming with Intuitive Software

No expert-level programming skills are required with the intuitive M1 software. You can easily apply teach & playback on an M1 and let it finish an assigned task as easy as 123. Advanced users can program the robot using their preferred programming language: Blockly, graphical programming language or Python.
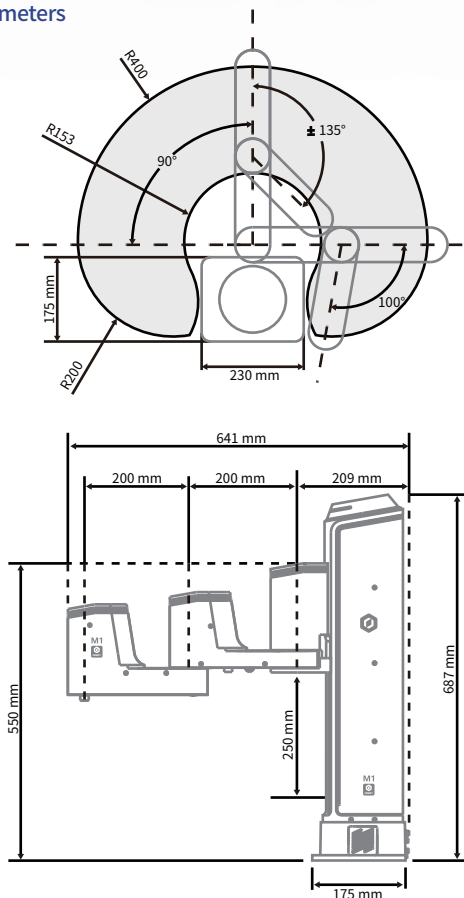
Safe Human-Robot Collaboration & Incredible Expandability for Customization

DOBOT M1 is designed to work alongside humans safely. The robot will stop automatically and immediately if it bumps into any object. A wide array of accessories are available for users to choose from, including gripper, suction cup and vision kit. The vision kit perfectly meets the needs of visual applications such as visual positioning, measurement, detection, and recognition. Packed with dozens of I/Os and two network interfaces, DOBOT M1 unlocks unlimited possibilities for automatic applications.

Born for Small & Medium-Sized Enterprises (SMEs)

Easy to move, DOBOT M1 delivers fast setup and flexible deployment, requiring no time-consuming makeovers and massive investment. Low-maintenance DOBOT M1 takes no costly and complex training, minimizing the cost of trial and error for SMEs.

Parameters

Technical Parameters

Reach	400mm		
Rated payload	1.5kg		
Maximum magnitude	Type	Mechanical limitation	Software limitation
	Rear arm	-90° ~90°	-85° ~85°
	Forearm	-135° ~135°	-135° ~135°
	Z-axis screw	0mm~250mm	10mm- 235mm
	End-effector rotation	unlimited	-360° ~360°
Maximum speed	Joint speed of forearm and rear arm	180°/s	
	Resultant speed of the forearm and rear arm	2000 mm/s	
	Speed of Z Axis	1000 mm/s	
Repeatability	0.02mm		
Power	Power adapter: 100V-240V AC，50/60Hz Dobot M1: 48V DC		
Communication interface	Ethernet、RS-232C		
I/O	22 Digital outputs, 24 Digital inputs, 6 ADC inputs		
Software	M1 studio		
System	Linux		