



Dobot M1 Pro

Dobot M1 Pro is an advanced second-generation SCARA robot equipped with an integrated dynamic algorithm and an operating system that enables collision detection. It is ideal for industrial applications requiring high-speed operations. Thanks to its simple design, collision detection capability, and hand-guiding learning function, the M1 Pro is characterized by ease of use and high intelligence.

Parameter	Value
Payload	1500 g
Maximum Reach	400 mm
Positioning Accuracy	± 0.02 mm
Communication	TCP/IP, Modbus TCP, Modbus RTU
Operating Voltage	48 V
Power	192 W
Joint Range J1	± 85°
Joint Range J2	± 135°
Joint Range J3	5 – 245 mm
Joint Range J4	± 360°
Maximum Speed (J1, J2)	180°/s
Maximum Speed J3	1000 mm/s
Maximum Speed J4	1000°/s
Controller Interfaces	16 × DI, 16 × DO, 1 × ABZ, 2 × Ethernet, 2 × USB 2.0
Software	DobotSCStudio, DobotStudio2020
Operating Temperature	-25°C – 55°C

Parameter	Value
Storage Temperature	0°C - 40°C
Base Dimensions	230 × 175 mm