DISTRIBUTOR CERTIFICATE

DOBOT

DEA COBOTICS

Make Automation Easy

DOBOT

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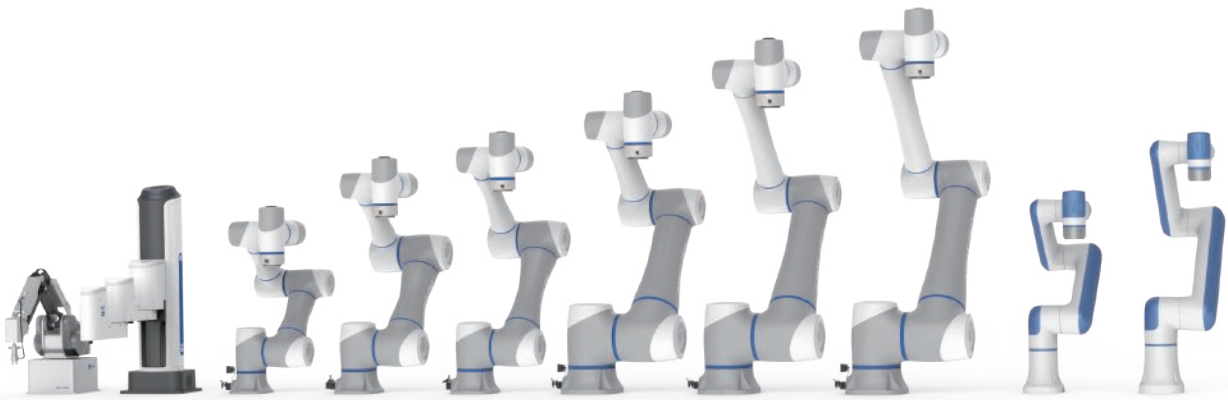

Dobot Robotics

68,000 Robots Sold Globally

Founded in 2015, Dobot is the creator of the world's first desktop grade collaborative robot. We offer 6 main product lines: CR, CRS, MG400, M1 Pro, Nova, and Magician, with over 10 collaborative robot models.

- Offers product line up that covers 0.5 to 16 kg payload, the first in the industry.
- Leads the sales of lightweight collaborative robots globally, selling to 140 countries and regions.
- Sold over 68,000 lightweight collaborative robots.
- Covers 15+ industries including consumer electronics, automotive, semiconductor, chemical, healthcare, metal processing, food and beverage, and retail.
- Partners with Foxconn, BYD, Foton, Toyota, Sony, Samsung, Jabil, Johnson Controls and dozens of Fortune 500 companies.
- Ranked No. 1 in the industry in terms of intellectual property rights count.
- Developed the SafeSkin, the world's first pre-collision wearable accessory for collaborative robots to achieve better efficiency and safety.
- Operates 3 R&D centers and 3 overseas branches in the US, Germany, and Japan, with additional office locations in Shenzhen, Shanghai, Suzhou, Beijing, Qingdao, and Chongqing.
- Works with 350+ distributors globally to offer professional customer services.

Stats Overview

40%	1200+	398
R&D Personnel	Intellectual Property Rights	Invention Patents

#1

Chinese Industrial Robot Exporter

140+

Countries & Regions Covered

350+

Distribution Partners

DOBOT

Production Base

World Leading Automated Production Lines

Dobot operates a robot production base in Rizhao, Shandong province, with a total area of 13 acres. It mainly manufactures smart robots and lightweight robotic arms for the industrial, commercial and research sectors.

- Planning 10+ world-leading smart production lines with an annual production capacity of 100,000 units.
- Aiming to become the most influential industrial robot innovation base in China.
- Realizes the latest manufacturing methods with full automation in assembly, transportation, welding, testing and more procedures.
- Adopting international standards of production processes and quality control procedures.
- Supplying the best quality of products to customers worldwide.
- The first phase of the production base came online in January 2022. 10,000 robots were produced by September of the same year.

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Human-machine Collaboration

Use the smart control panel to operate the robot directly. Users can record robot's motion with one button. A 3D vision sensor can be used to allow for imitation of the movements of a human arm.

High Performance Motion Control

Applying optimal DH parameters compensation and dynamics algorithms to reduce residual vibration by 70%, achieve 60% faster time to stability, and 0.2 to 0.4 mm positioning accuracy during complex motion performances.

Core Technologies

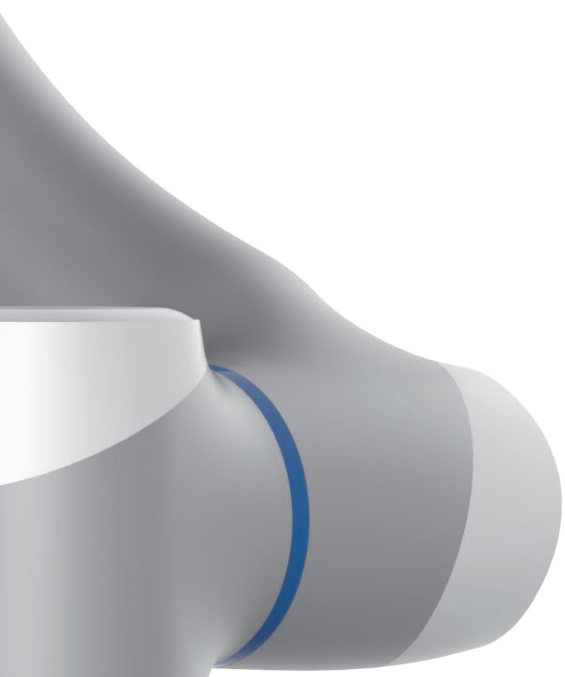
Dobot insists on self-developing core technologies for drive integration, AI control, human-machine interaction and safety control, to offer a complete package breakthrough from the architecture through application layers.

Perceptive Architecture

Integrates visual, force and auditory perceptions in one. Precise grasping is achieved through object recognition and autonomous path planning. Force control algorithm realizes optimal polishing results.

Innovative Safety Technology

The SafeSkin is industry's first wearable pre-collision detection technology. It is capable of sensing intruding objects that come within 15 cm of range. The SafeSkin improves human machine collaboration speed to 1 m/s, 4 times the international standard of 0.25 m/s.



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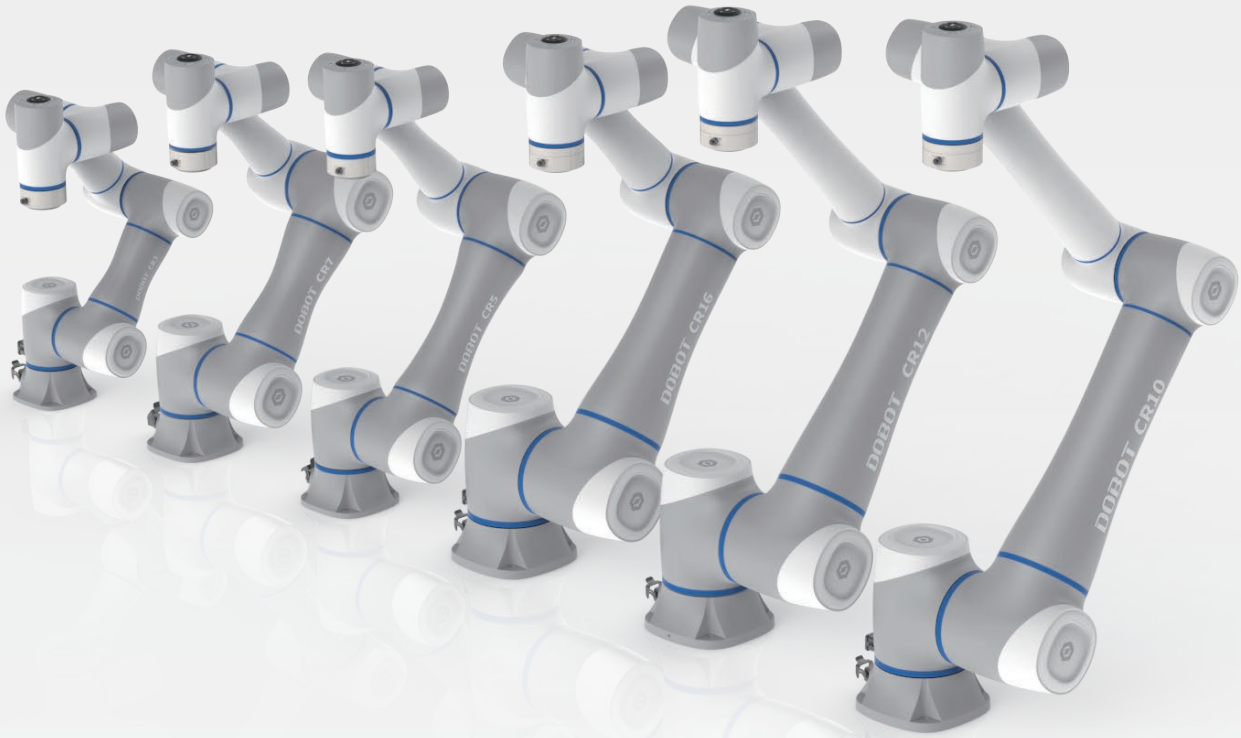


DOBOT CR Series

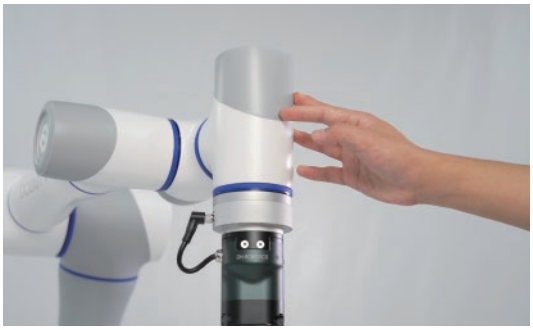
Made For Flexible Applications

The CR series has payloads ranging from 3 to 16 kg and covers 200+ application scenarios in 15+ major industries including automotive, consumer electronics, semiconductive, healthcare and retail. They are safe and efficient, flexible and user friendly, easily fulfilling the needs of the end users.

Consumer Electronics | Automotive | Semiconductor | Metal Processing | Chemical | Food & Beverage | Healthcare | Retail

Safe for Efficient Collaboration.

The CR series has 22 safety features built-in and is ISO 13849 and TS15066 certified. Equipped with sensors to offer 5 adjustable levels of collision detection, it can adapt to a variety of application scenarios.



Infused with AI Technology. Calibrate with One Hand.

Equipped with end tip intelligent control panel, drag-to-teach, trajectory recording and replay can be initiated by pressing a button. Works with various end effectors and accessories, the CR series is easy to learn and operate.

Precise Positioning for Stability and Reliability.

The CR series has a repeatability up to ± 0.02 mm, thinner than a strand of hair. With MTBF 30,000 hours certificate, the robots can reliably operate for long hours performing complex and repetitive tasks to greatly improve production yield and maintain a consistent production quality.

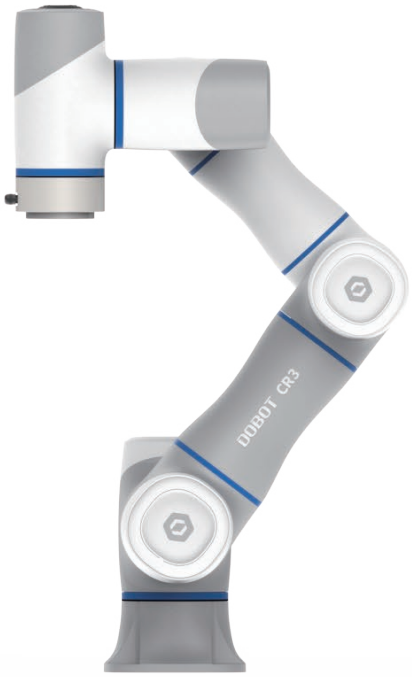
Cross Platform. Seamless Experience.

The CR series supports graphical programming on smartphones, tablets, computers and teach pendants running Android, iOS, Windows and more operating systems. Equipped with 433 Mbps high speed network cards, the CR series offers a smooth user experience.

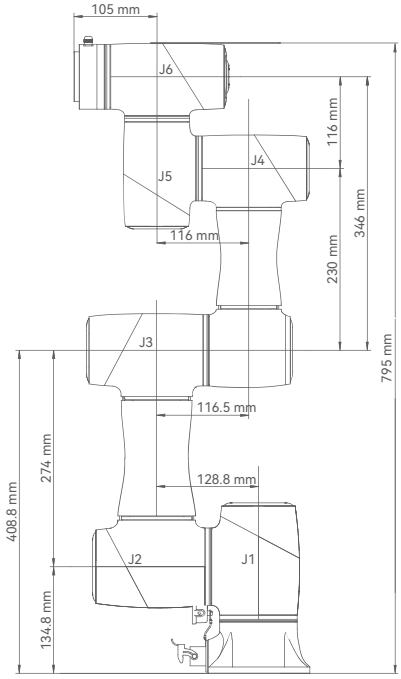
DOBOT

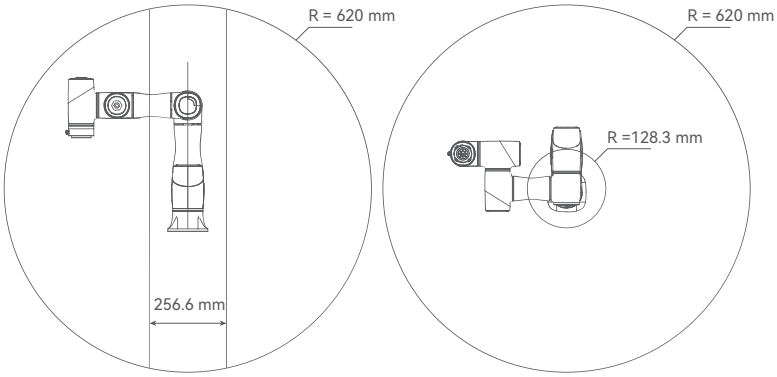
CR3

Device Specifications & Dimensions



Weight	16.5 kg
Payload	3 kg
Working Radius	620 mm
Max. Reach	795 mm
Repeatability	± 0.02 mm
Max Speed of TCP	2 m/s

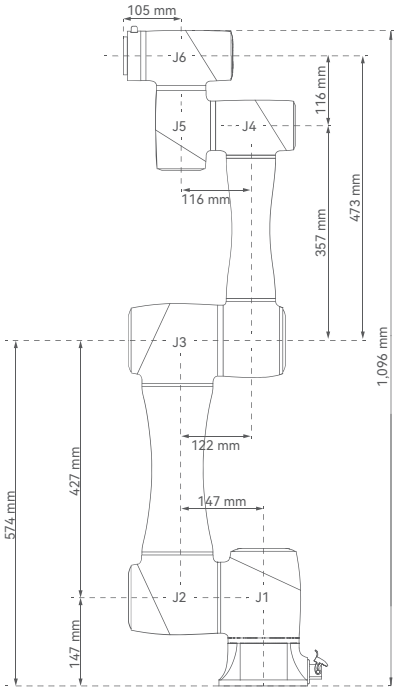


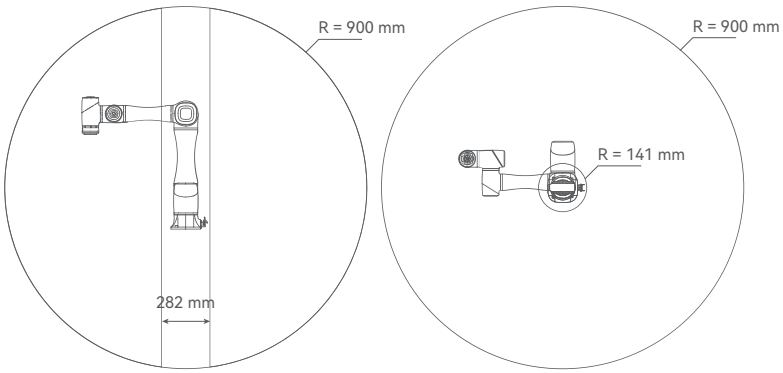


CR5

Device Specifications & Dimensions

Weight	25 kg
Payload	5 kg
Working Radius	900 mm
Max. Reach	1,096 mm
Repeatability	± 0.02 mm
Max Speed of TCP	3 m/s





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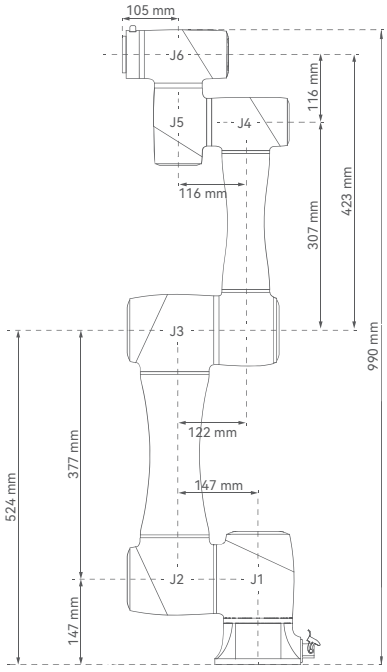
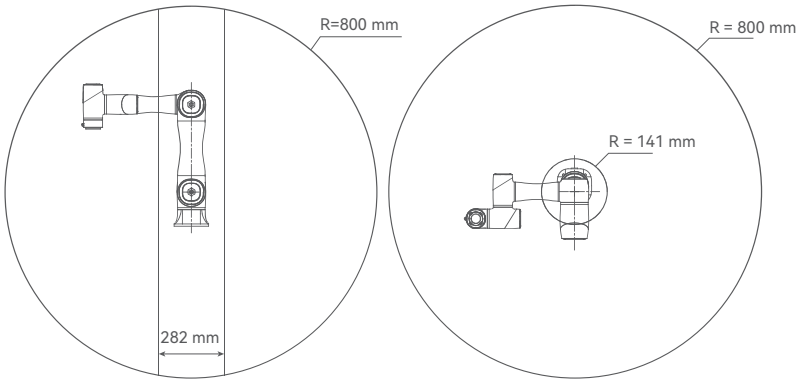
CR7

Device Specifications & Dimensions

Weight	24.5 kg
Payload	7 kg
Working Radius	800 mm
Max. Reach	990 mm
Repeatability	± 0.02 mm
Max Speed of TCP	3 m/s

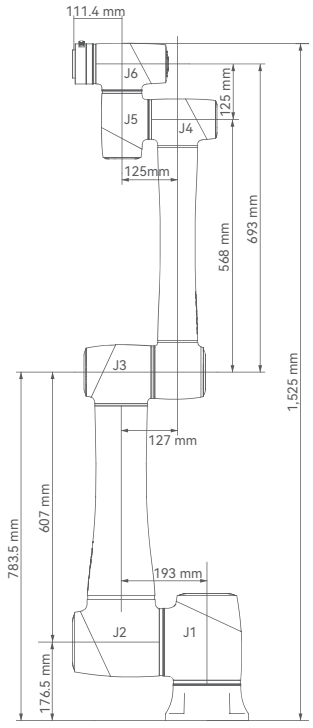


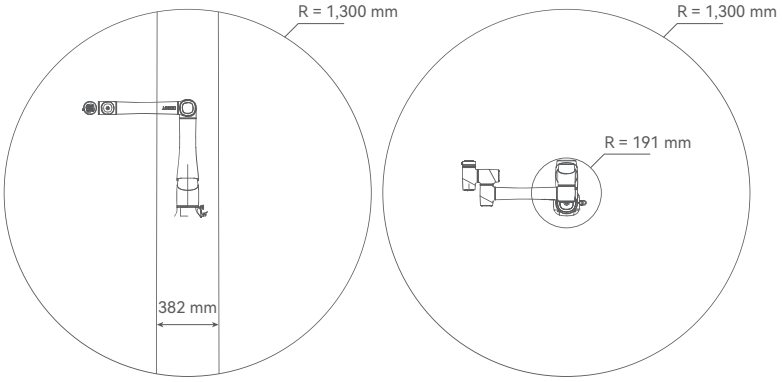


CR10

Device Specifications & Dimensions

Weight	40 kg
Payload	10 kg
Working Radius	1,300 mm
Max. Reach	1,525 mm
Repeatability	± 0.03 mm
Max Speed of TCP	4 m/s





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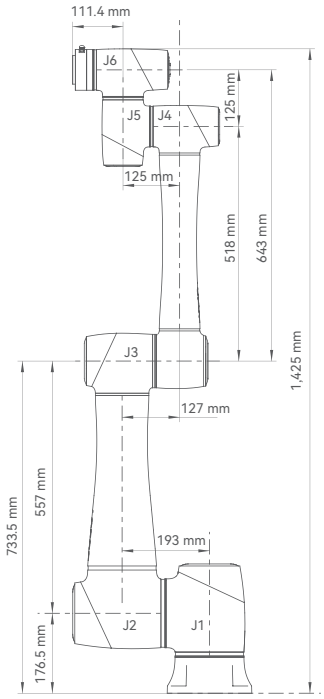
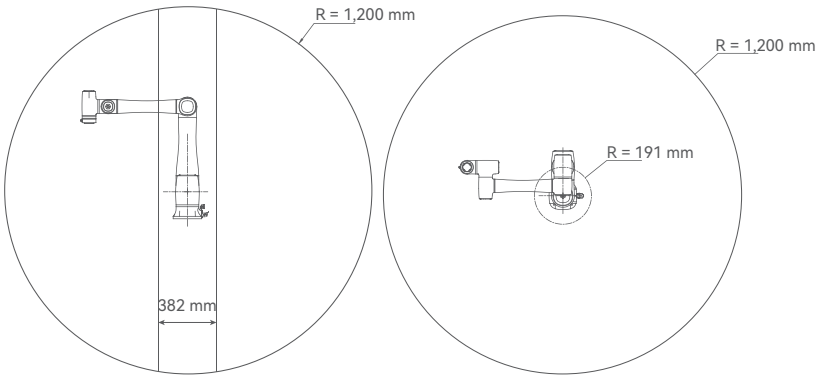
CR12

Device Specifications & Dimensions

Weight	39.5 kg
Payload	12 kg
Working Radius	1,200 mm
Max. Reach	1,425 mm
Repeatability	± 0.03 mm
Max Speed of TCP	4 m/s

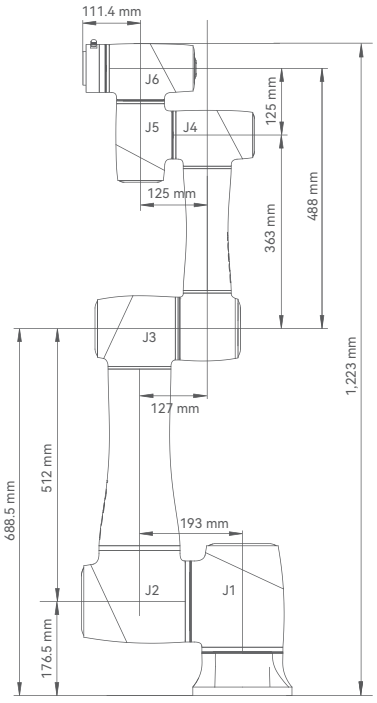


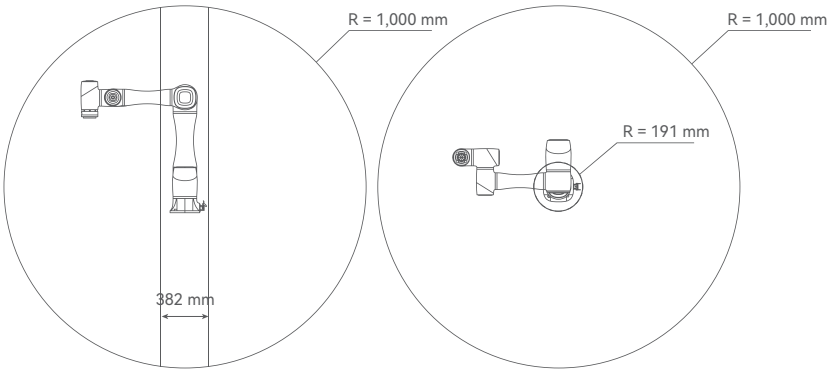


CR16

Device Specifications & Dimensions

Weight	40 kg
Payload	16 kg
Working Radius	1,000 mm
Max. Reach	1,223 mm
Repeatability	± 0.03 mm
Max Speed of TCP	3 m/s





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CR Series Specifications

Model		CR3	CR5	CR7	CR10	CR12	CR16
Weight		16.5 kg	25 kg	24.5 kg	40 kg	39.5 kg	40 kg
Payload		3 kg	5 kg	7 kg	10 kg	12 kg	16 kg
Working Radius		620 mm	900 mm	800 mm	1,300 mm	1,200 mm	1,000 mm
Max. Reach		795 mm	1,096 mm	990 mm	1,525 mm	1,425 mm	1,223 mm
Rated Voltage		48V DC	48V DC	48V DC	48V DC	48V DC	48V DC
Max. Speed of TCP		2 m/s	3 m/s	3 m/s	4 m/s	4 m/s	3 m/s
Range of Motion	J1	± 360°	± 360°	± 360°	± 360°	± 360°	± 360°
	J2	± 360°	± 360°	± 360°	± 360°	± 360°	± 360°
	J3	± 155°	± 160°	± 160°	± 160°	± 160°	± 160°
	J4	± 360°	± 360°	± 360°	± 360°	± 360°	± 360°
	J5	± 360°	± 360°	± 360°	± 360°	± 360°	± 360°
	J6	± 360°	± 360°	± 360°	± 360°	± 360°	± 360°
Maximum Joint Speed	J1/J2	180° /s	180° /s	180° /s	120° /s	120° /s	120° /s
	J3/J4/J5/J6	180° /s	180° /s	180° /s	180° /s	180° /s	180° /s
End-Effector I/O Interface	DI/DO/AI	2					
	AO	0					
Communication Interface	Communication	RS485					
Controller I/O	DI	16					
	DO/DI	16					
	AI/AO	2					
	ABZ Incremental Encoder	1					
	Cable Length to Controller	5 m					
Repeatability		± 0.02 mm			± 0.03 mm		
Communication		TCP/IP, Modbus TCP, WIFI					
IP Rating		IP54					
Working Environment		0° to 45° C					
Power Consumption		120W	150W	150W	350W		
Materials		Aluminum alloy, ABS plastic					

CR Series Control Box Specifications

Model	CC162
Dimensions	360 mm x 160 mm x 402.4 mm
Weight	12 kg
No. of Control Axes	6
Input Power	110 to 220V AC, 7.5A, 50/60Hz
Communication Port	Ethernet
I/O Port	16 x DO
	16 x DI/DO
	2 x AO (0 to 10V, 4 to 20mA)
	2 x AI (0 to 10V, 4 to 20mA)
	1 x ABZ incremental encoder
Teaching Method	Drag-to-teach. App
Programming Language	Script programming
	Graphical programming (Blockly)
Installation Orientation	Floor
Working Environment	Temperature: 0 to 45° C Humidity: 0% to 95% non-condensing
IP Rating	IP20
Cooling Mode	Air cooling

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DOBOT CRS Series

Equipped With The SafeSkin For Better Safety And Greater Efficiency.

The CRS series is the upgraded version of the CR series. It has the same characteristics and performance of the CR series, and is further improved by the addition of the SafeSkin for pre-collision detection to achieve better safety and collaboration efficiency. The CRS series has 3 kg, 5 kg and 10 kg payloads to offer both safety and efficiency to end users.

Semiconductor | Automotive | Consumer Electronics | Metal Processing | Chemical

15 cm Proactive Protection Range

The CRS series senses obstacles that come within 15 cm, and performs emergency stop or automatic evasion to avoid damages caused by collisions.

10 ms Instant Response Time

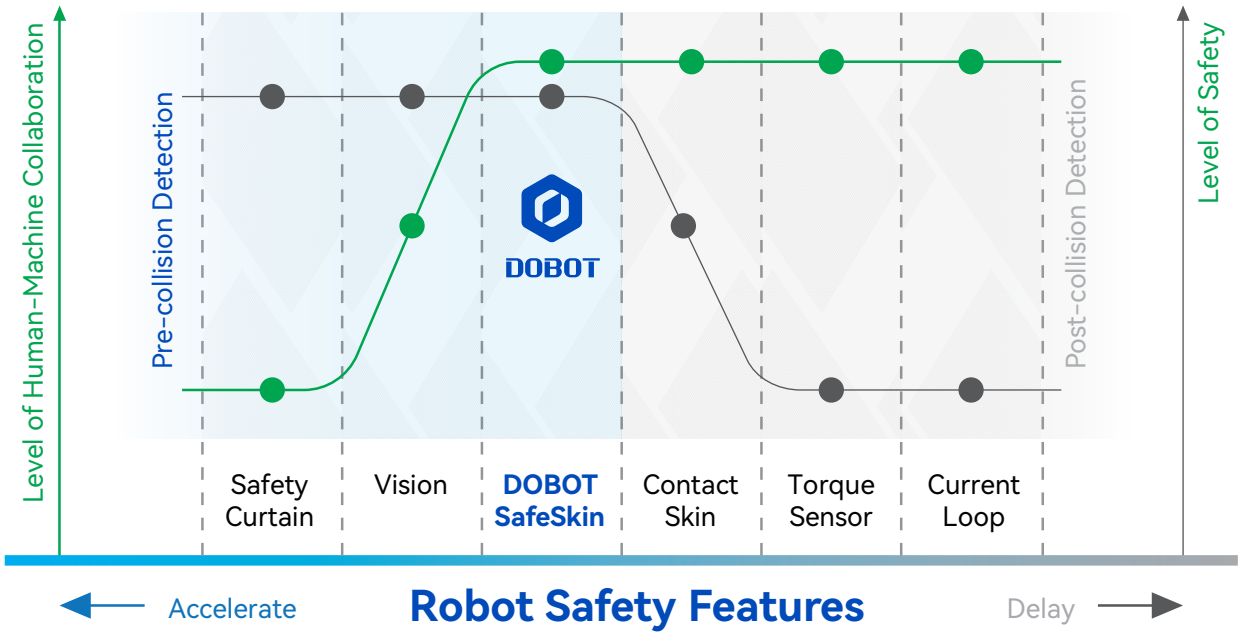
Within 0.01 second after sensing obstacles, it automatically activates reaction procedures predetermined by the users, whether it is to stop or evade. The result is a highly responsive and safe interaction.

360° Safety Protection

The SafeSkin is industry's first wearable accessory made of silicon. It is soft on contact to reduce collision impact. With excellent anti-interference characteristics, the SafeSkin's performance is not affected by intermediate materials such as clothes and plastic gloves. It is wrapped around the robotic arm to offer all-round safety protection.

4 Times Efficiency Gains

With fewer collisions and operation halts, human-machine collaboration speed can be increased to 1 m/s, four times the international standard of 0.25 m/s.



*Measured result: The DOBOT SafeSkin completely avoids collisions during low to medium speed operations, and decreases 90% of collision injuries during high speed operation. This satisfies standards of safe collaboration.

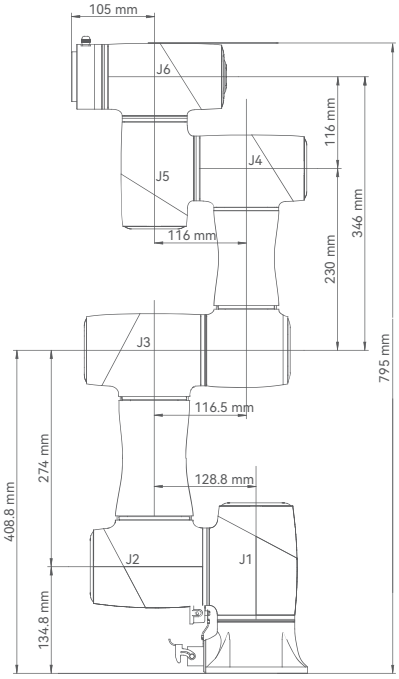
SafeSkin Specifications

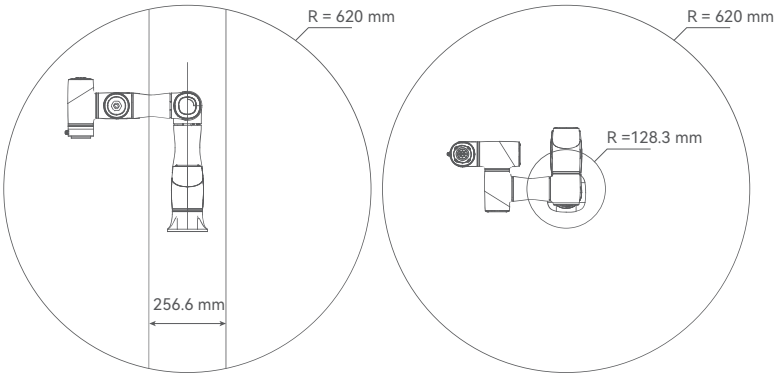
Model	SafeSkin
Sense Type	Proximity and contact
Sensing Targets	Human bodies, metals, liquids, etc. (Less effective with non-conductive items)
Installation Locations	J4, J5, J6 recommended
Effective Sense Range	5 to15 cm (varies based on installation location)
Sensing Cycle Time	0.01 s
Emergency Stop Execution Time	0.1 s

CR3S

Device Specifications & Dimensions

Weight	17.9 kg
Payload	3 kg
Working Radius	620 mm
Max. Reach	795 mm
Repeatability	± 0.02 mm
Max Speed of TCP	2 m/s





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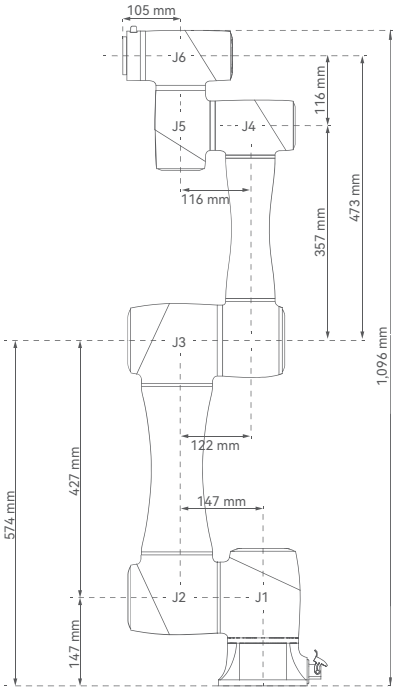
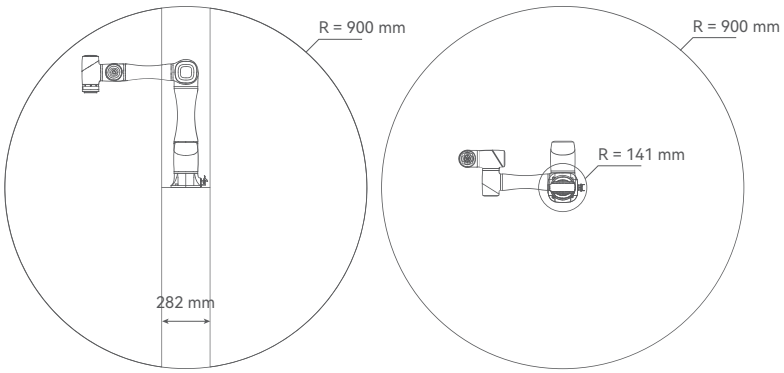
CR5S

Device Specifications & Dimensions

Weight	26.6 kg
Payload	5 kg
Working Radius	900 mm
Max. Reach	1,096 mm
Repeatability	± 0.02 mm
Max Speed of TCP	3 m/s

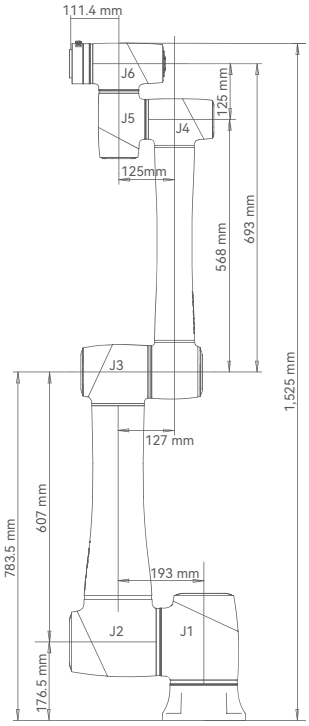


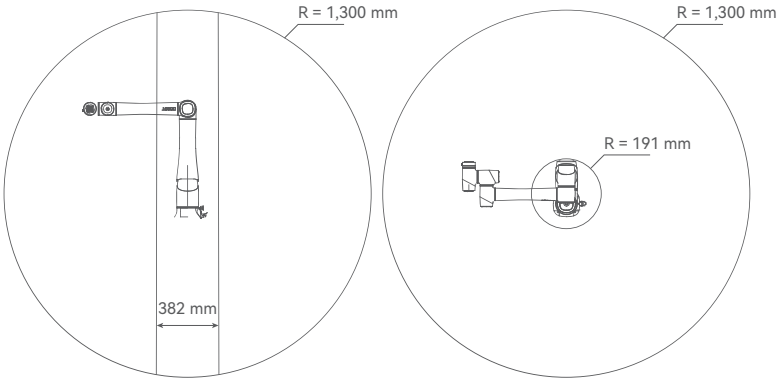


CR10S

Device Specifications & Dimensions

Weight	43 kg
Payload	10 kg
Working Radius	1,300 mm
Max. Reach	1,525 mm
Repeatability	± 0.03 mm
Max Speed of TCP	4 m/s





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DOBOT MG400

First Ever Desktop Grade Industrial Robotic Arm

The MG400 is an ultra-compact desktop grade robotic arm made for various small batch and flexible production tasks in the light industry. It is quick to deploy, easy to use, and safe for collaboration. With no code drag-to-teach, collision detection and many more features, the MG400 is highly competitive and cost effective.

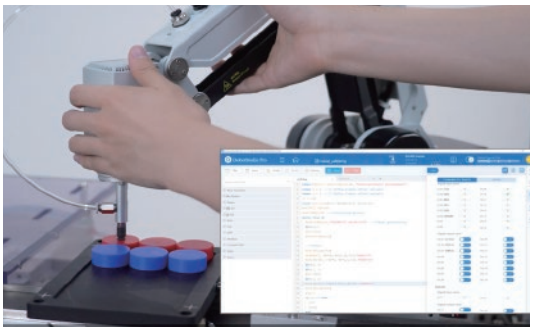
Semiconductor | Consumer Electronics | Metal Processing | Food & Beverage | Retail | Healthcare

Compact

With a footprint smaller than 190 mm x 190 mm and simple wiring, the MG400 is ready to deploy once power is connected, making it flexible for various manufacturing environments.

Quick Calibration

The MG400 supports graphical programming and drag-to-teach which speed up 80% of the time needed for calibration process to allow for quick redeployment.

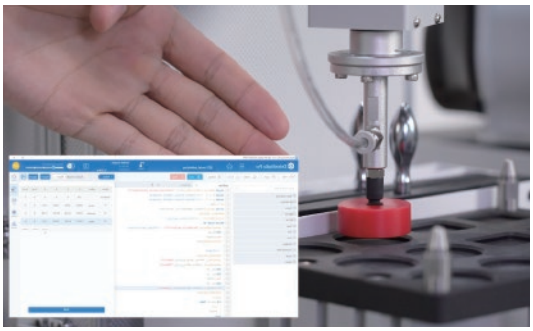


Industrial Grade Performance

The MG400 has a repeatability of ±0.05 mm and reduces residual vibration by 70%. It passes the MTBF 20,000 hours certification, and is built for industrial use.

Stable Operations

With Dobot's proprietary motion control algorithm, the MG400 has highly optimized accuracy and stability to achieve smooth operation even when moving through complex curves.

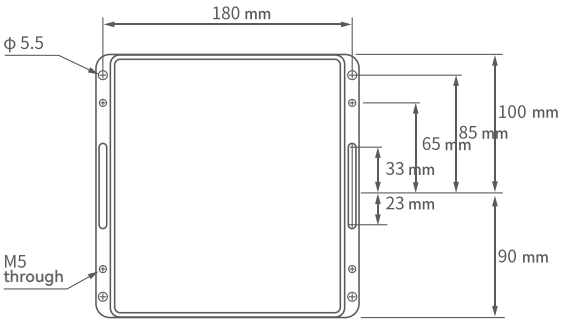


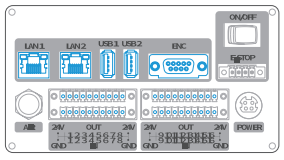
Short Payback Period

A MG400 can replace up to 2 workers. It takes as fast as a month to recoup its cost and can save 15,000 USD annually, while solving staffing issues and ensuring stable income.

MG400 Specifications

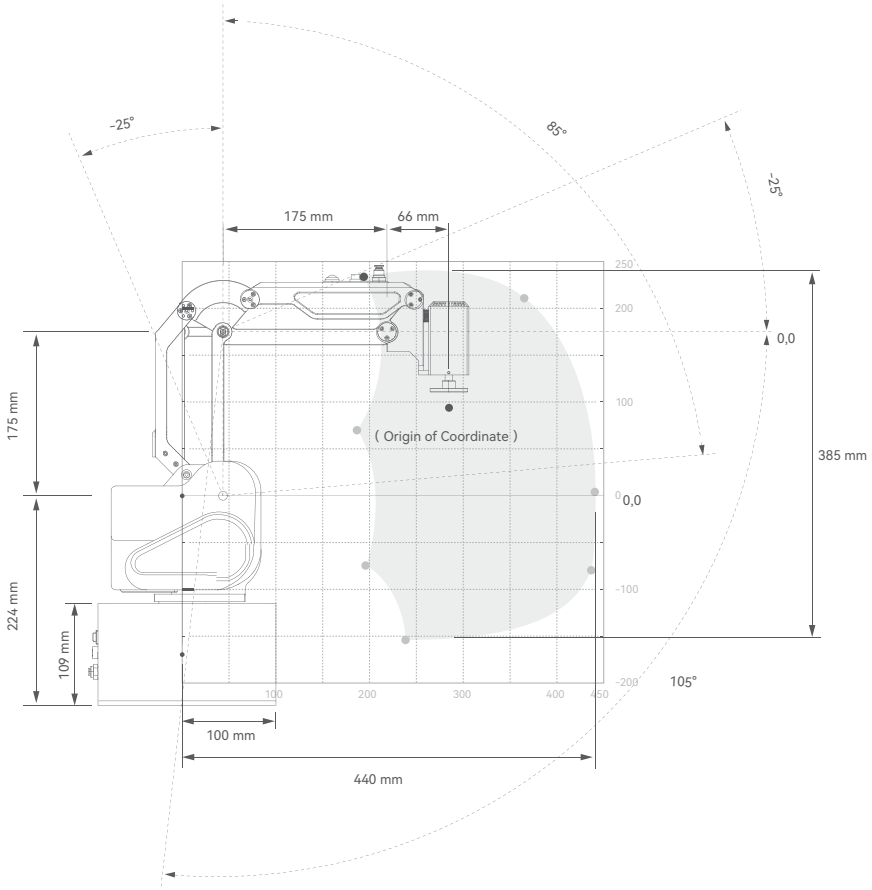
Model		MG400
Number of Axes		4
Payload		500 g （Max 750 g）
Working Radius		440 mm
Repeatability		± 0.05 mm
Range of Motion	J1	± 160°
	J2	-25° to 85°
	J3	-25° to 105°
	J4	-360° to 360°
Maximum Joint Speed	J1	300° /s
	J2	300° /s
	J3	300° /s
	J4	300° /s
Power		100 to 240V AC, 50/60Hz
Rated Voltage		48V
Power Consumption		150W
Communication Interface		TCP/IP, Modbus TCP
Installation Orientation		Desktop
Weight		8 kg
Base Dimensions		190 mm × 190 mm
Working Environment		0° to 40° C





Base Interface	Digital Input	16
	Digital Output	16
	Ethernet	2
	USB 2.0	2
	Encoder Input	1

Arm Tip Interface	Digital Input	2
	Digital Output	2


-25°
85°
-25°
175 mm
66 mm
250
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100
(Origin of Coordinate)
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-100
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105°
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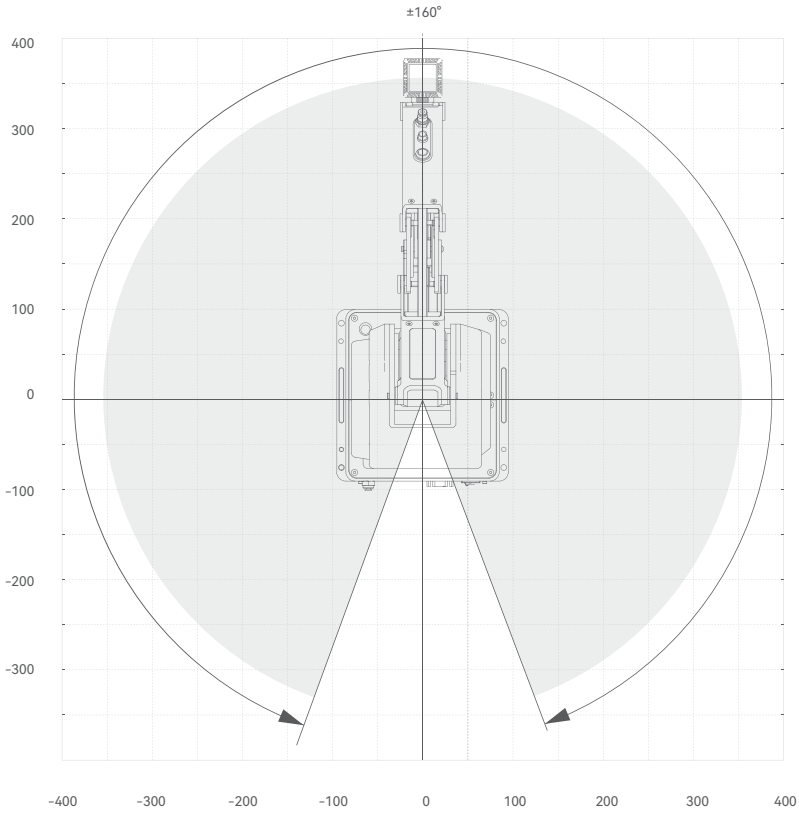
±160°
400
300
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0
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-400
-300
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200
300
400

DOBOT

DOBOT M1 Pro

Collaborative SCARA For The Light Industry

The M1 Pro is Dobot's second generation of collaborative SCARA made for the manufacturing needs of the light industry. It is built on top of the advantages of M1, with upgrades in multiple aspects including flexibility, ease-of-use, stability, safety and intelligence to further optimize automation workflow in the light industry.

Healthcare | Semiconductor | Consumer Electronics | Food & Beverage | Retail

Easy Setup

Integrated control box gets rid of additional wiring for quick plug-and-play setup in just 15 minutes.

Simple Operation

Supports graphical and script programming making calibration and operation accessible to more users. The M1 Pro can be controlled using smartphones, tablets and other terminal devices.

Safe Collaboration

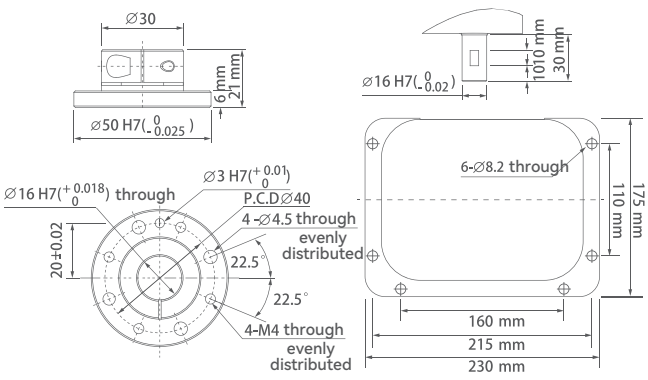
Built-in 5 adjustable levels of collision detection to ensure the safety of human-machine collaboration. There is no need to install light curtains.

Smart & Efficient

Encoder interface to enable applications that require dynamic grasping and tracking. Supports multi-threading, parallel processing and on the fly I/O controls to increase performance speed.

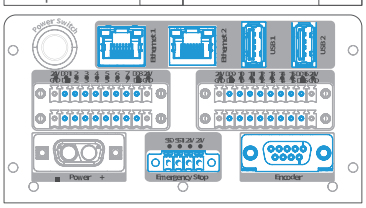
M1 Pro Specifications

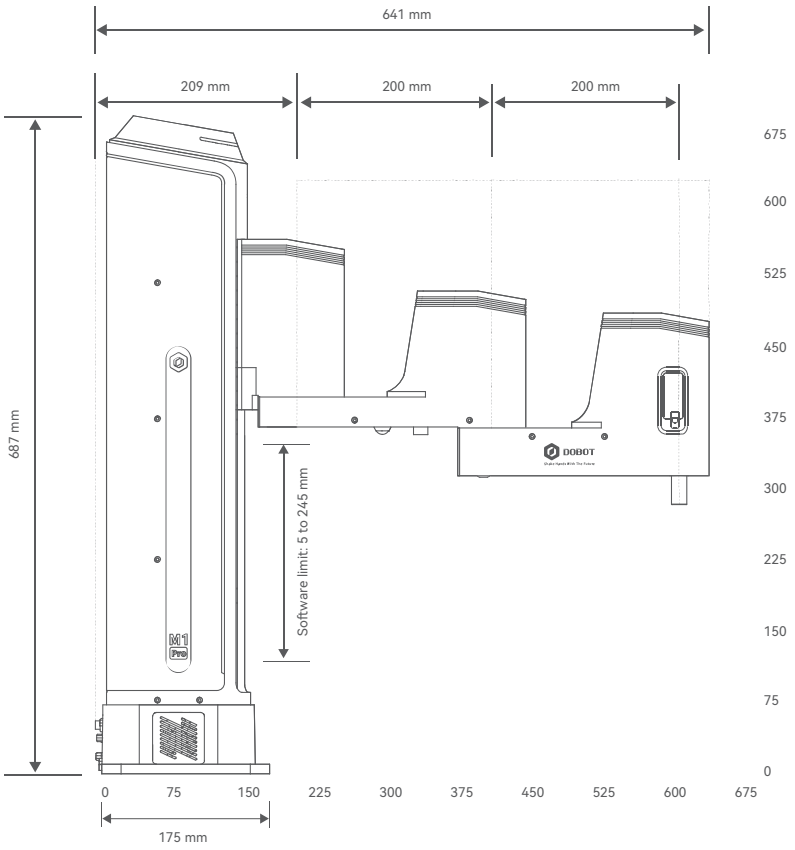
Model	M1 Pro	
Working Radius	400 mm	
Payload	1.5 kg	
Range of Motion	J1	-85° to 85°
	J2	-130° to 130°
	J3	5 mm to 245 mm
	J4	-360° to 360°
Maximum Joint Speed	J1, J2	180° /s
	J1 + J2	2 m/s
	J3	1 m/s
Repeatability	± 0.02 mm	
Power	100 to 240V AC, 50/60Hz	
Weight	15.7 kg	
Communication Interface	TCP/IP, Modbus, WiFi	
I/O Interface	16-channel DI (PNP) 16-channel DO (PNP)	

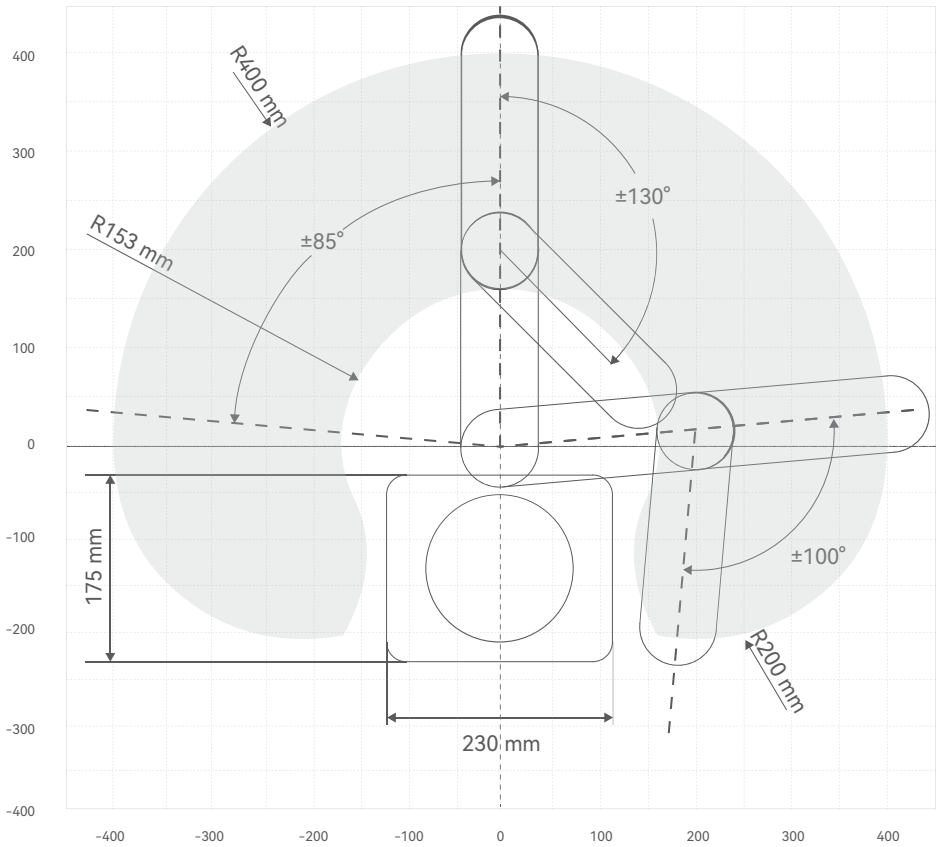


Robot Interface

Base Interface		Arm Tip Interface	
Digital Input	16	Digital Input	4
Digital Output	16	Digital Output	4
Ethernet	2		
USB 2.0	2		
Encoder Input	1		
Emergency Stop Interface	1		




641 mm
209 mm
200 mm
200 mm
687 mm
Software limit: 5 to 245 mm
175 mm
675
600
525
450
375
300
225
150
75
0
0
75
150
225
300
375
450
525
600
675


R400 mm
R153 mm
±85°
±130°
±100°
R200 mm
175 mm
230 mm
400
300
200
100
0
-100
-200
-300
-400
-400
-300
-200
-100
0
100
200
300
400

DOBOT

DOBOT Nova Series

Collaborative Robots For The Retail Sector

The Nova series is designed specifically for retail. Having two models with 2 kg and 5 kg payloads, the Nova series has multiple safety features, is lightweight and easy to use. It is ideal to automate tasks in restaurants, shops, physiotherapy and other retail businesses.

Retail

Food & Beverage

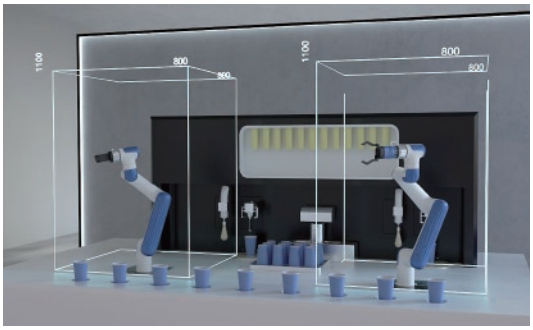
Moxibustion

Physiotherapy

Delivery

Compact & Portable

The Nova series is 40% lighter than comparable industrial robots. Palm-sized control box makes rapid deployment possible without the need to alter store layout.



Easy to Use

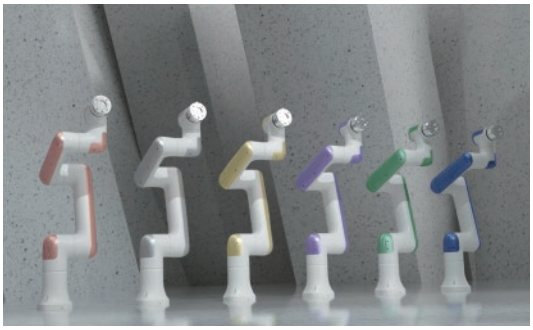
Drag-to-teach and graphical programming allow users to control Nova robots without prior experience. The Nova series can be deployed in just 10 minutes.

Enhanced Safety

Improved upon Dobot's 5 adjustable levels of collision detection and taking into consideration of retail scenarios, the Nova series can sense human postures and will lock itself in place in case of sudden power outage for better safety.

Customizable

Bespoke service on color customization for a coherent presentation of the store interior.



DOBOT

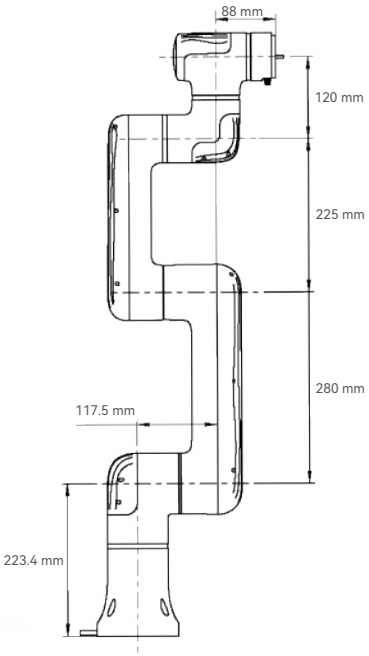
Nova Series Specifications

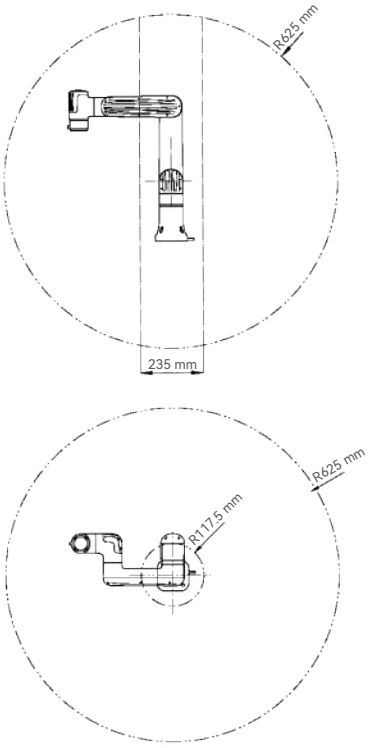
Model		Nova 2	Nova 5
Weight		11 kg	14 kg
Payload		2 kg	5 kg
Working Radius		625 mm	850 mm
Max. Speed of TCP		1.6 m/s	2 m/s
Range of Motion	J1	± 360°	± 360°
	J2	± 180°	± 180°
	J3	± 156°	± 160°
	J4	± 360°	± 360°
	J5	± 360°	± 360°
	J6	± 360°	± 360°
Maximum Joint Speed	J1/J2/J3/J4/J5/J6	135° /s	100° /s
End IO	DI	2 inputs	
	DO	2 outputs	
	RS485	Supported	
Repeatability		± 0.05 mm	± 0.05 mm
IP Rating		IP54	IP54
Noise		65dB (A)	70dB (A)
Working Environment		0° to 50° C	0° to 50° C
Power Consumption	Typical value	100W	230W
	Maximum value	250W	770W
Installation Orientation		Any angle	
Cable Length to Controller		3 m	
Materials		Aluminum alloy, ABS plastic	

Model	CCBOX	
Dimensions	200 mm x 120 mm x 55 mm	
Weight	1.3 kg	
Input Power	30 to 60V DC	
IO Power	24V, Max 2A, Max 0.5A for each channel	
IO Interface	DI	8 inputs (NPN or PNP)
	DO	8 outputs (NPN or PNP)
	AI	2 inputs, voltage mode, 0V to 10V
	AO	2 outputs, voltage mode, 0V to 10V
Remote Power On/Off	Supported	
Communication Interface	Network interface	2, for TCP/IP and Modbus TCP communication
	USB	2, for connecting USB wireless module
	485 interface	1, for RS485 and Modbus RTU communication
Working Environment	Temperature	0° to 50° C
	Humidity	≤ 95%, noncondensing
IP Rating	IP20	
Cooling Mode	Passive heat dissipation	
Software	PC, APP (Android, iOS)	

Nova 2

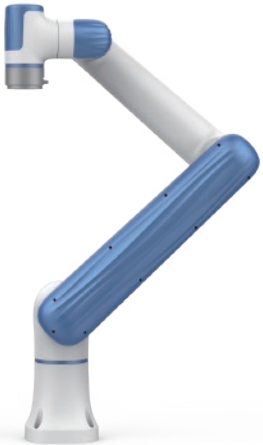
Device Specifications & Dimensions

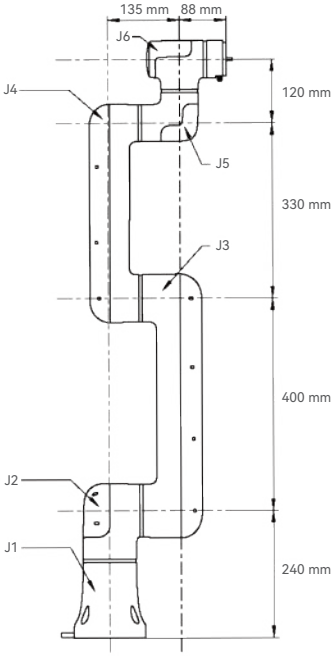


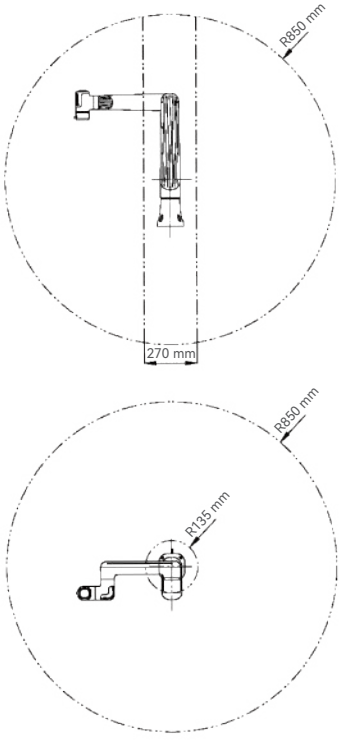


Nova 5

Device Specifications & Dimensions



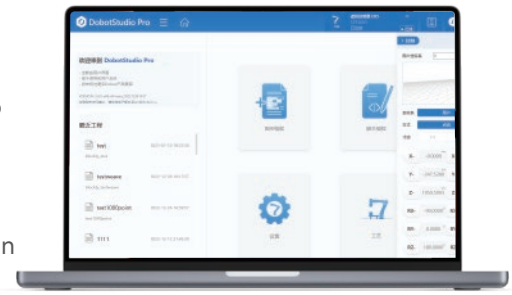




Control Software

DobotStudio Pro

The DOBOT CR series can be controlled using the DobotStudio Pro on Windows devices. Having intuitive user interface and innovative programming methods, the software supports secondary development. Embedded simulation functionality allows for pre-deployment evaluation to speed up the transition process to automation



CR Studio

Use the CR Studio on mobile devices to control the DOBOT CR series. The software supports graphical and script programming that are easy to learn.

SmartPendant

The SmartPendant is the hardware device for controlling the DOBOT CR series. With the same user interface and overall functionality of the mobile app, the SmartPendant comes with physical buttons for tactile control inputs and emergency stop.

Product Certifications

Dobot products have passed multiple certifications including ISO 13849, 15066, the European CE, North American NRTL, Korean KCs, Chinese CR and many more. Meeting the regulatory requirements on safety and reliability, our robots are ready for deployment around the world.

Certifications / Product	Safety Certifications			Region Certifications				Reliability Certifications		Other	
	ISO 13849 PL=d	ISO/TS 15066	North American NRTL	European CE	Australian RCM	Chinese CR	Korean KCs	MTBF 20,000 hours	MTBF 30,000 hours	Cleanroom, ISO 5/ Class 100	SEMI S2& S8
CR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MG400		✓		✓	✓	✓	✓	✓			
M1 Pro				✓		✓	✓				

No.: SRI-A-21024-E

National Robot Test And Assessment Center
Robot Research and Commercialization Platform

Reliability Certificate

Client: Shenzhen Yuejiang Technology Co., Ltd.

Address: Room 1003, Building 2, Chongwen Park, Nanshan iPark, No.3370, Liuxian Blvd, Fuguang Community, Taoyuan Street, Nanshan District, Shenzhen

Manufacturer: Shenzhen Yuejiang Technology Co., Ltd.

Address: Room 1003, Building 2, Chongwen Park, Nanshan iPark, No.3370, Liuxian Blvd, Fuguang Community, Taoyuan Street, Nanshan District, Shenzhen

Name of product: DOBOT CR5

Type: DT-CR-6R850-008

Test specification: GB/T 39590.1-2020, Robot reliability-Part 1: General guidelines
GB/T 12642-2013, Industrial robots-Performance criteria and related test methods
T/CEEIA 558:2021, Reliability test and evaluation for industrial robots

This is to certify that the MTBF of Yuejiang DOBOT CR5 Cobot has reached 30000 hours.

Date of Issue: 2022-06-30
Date of Expiry: 2024-06-29

National Robot Test And Assessment Center
Robot Research and Commercialization Platform
Shanghai Robot Industrial Technology Research Institute (Sport.)

MTBF 30,000 Hours Certification

SGS

VERIFICATION OF COMPLIANCE

No.: SHES21120245948MD

Applicant: Shenzhen Yuejiang Technology Co., Ltd. Room 1003, Building 2, Chongwen Park, Nanshan iPark, No.3370, Liuxian Blvd, Fuguang Community, Taoyuan Street, Nanshan District, Shenzhen City, 518071, China

Manufacturer: Same as applicant

Product Name: DOBOT CR16, DOBOT CR16S, DOBOT CR12, DOBOT CR12S, DOBOT CR10, DOBOT CR10S, DOBOT CR7, DOBOT CR7S, DOBOT CR5, DOBOT CR5S, DOBOT CR3, DOBOT CR3S, DOBOT CR3L, DOBOT CR3LS

Product Description: Collaborative robot

Model No.: DT-CR-6R16D-001, DT-CR-6R16S-03, DT-CR-6R12D-001, DT-CR-6R12S-03, DT-CR-6R10D-001, DT-CR-6R10S-03, DT-CR-6R07D-001, DT-CR-6R07S-03, DT-CR-6R05D-001, DT-CR-6R05S-03, DT-CR-6R03D-001, DT-CR-6R03S-03, DT-CR-6R03D-01I, DT-CR-6R03S-01I

Rating: 100-240 V~ 50/60 Hz

Protection against Electric Shock: Class I

Additional Information (if any): Collaborative robot tested with Power and force limiting by inherent design or control

Sufficient samples of the product have been tested and found to be in conformity with

Test Standard: ISO/TS 15066:2016

as shown in the Test Report Number(s): SHES21120245847I

This Verification of Compliance has been granted to the applicant based on the results of tests, performed by Laboratory of SGS-CSTC Standards Technical Services Co., Ltd. on sample of the above-mentioned product in accordance with the provisions of the relevant specific standards.

Andrew Zhai
Technical Manager
SGS-CSTC

2021-12-15

ISO/TS 15066 Collaborative Robot Certification

SGS

VERIFICATION OF MD COMPLIANCE

No.: SZFS21050000032MDC

Applicant: Shenzhen Yuejiang Technology Co., Ltd. Room 1003, Building 2, Chongwen Park, Nanshan iPark, No.3370, Liuxian Blvd, Fuguang Community, Taoyuan Street, Nanshan District, Shenzhen, Guangdong, China

Manufacturer: Same as applicant

Product Description: CR-Series Collaborative Robot Safety System

Model No.: DT-CR-6R035-00; DT-CR-6R035-00I; DT-CR-6R050-01I; DT-CR-6R035-01I; DT-CR-6R050-00I; DT-CR-6R065-00I; DT-CR-6R075-00I; DT-CR-6R075-00; DT-CR-6R100-00; DT-CR-6R100-00I; DT-CR-6R120-00I; DT-CR-6R120-00; DT-CR-6R125-00; DT-CR-6R165-00I; DT-CR-6R165-00

Sufficient samples of the product have been tested and found to be in conformity with

Test Standard: EN ISO 12100:2010
EN 60204-1:2018
EN ISO 10218-1:2011

as shown in the Test Report Number(s): SZFS21051000320I1
SZFS21050000320I1

This Verification of MD Compliance has been granted to the applicant based on the results of tests performed by Laboratory of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch on sample of the above-mentioned product in accordance with the provisions of the relevant specific standards and the Machinery Directive 2006/42/EC. The CE mark as shown below can be affixed, under the responsibility of the manufacturer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives. The affixing of the CE marking presumes in addition that the conditions in annexes III of the Directive are fulfilled.

CE

Rocky Wang
Laboratory Manager
SGS-CSTC

2021-10-20

SGSPAPER
19947981

CE – MD Safety Certification

Dobot+

Ecosystem of Accessories

Dobot robots support over 100 plug-and-play 2D/3D vision sensor, gripper, force sensor, end effector accessories and more than 20 development platforms to enable secondary development for advanced customizable application scenarios, such as loading and unloading, sorting, inspection, screwdriving, transporting, polishing and gluing.

C

C++

C#

Python

ROS

Matlab

LabView

Android

2D/3D Cameras







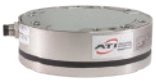

Grippers








Force Sensors



AGV / AMR

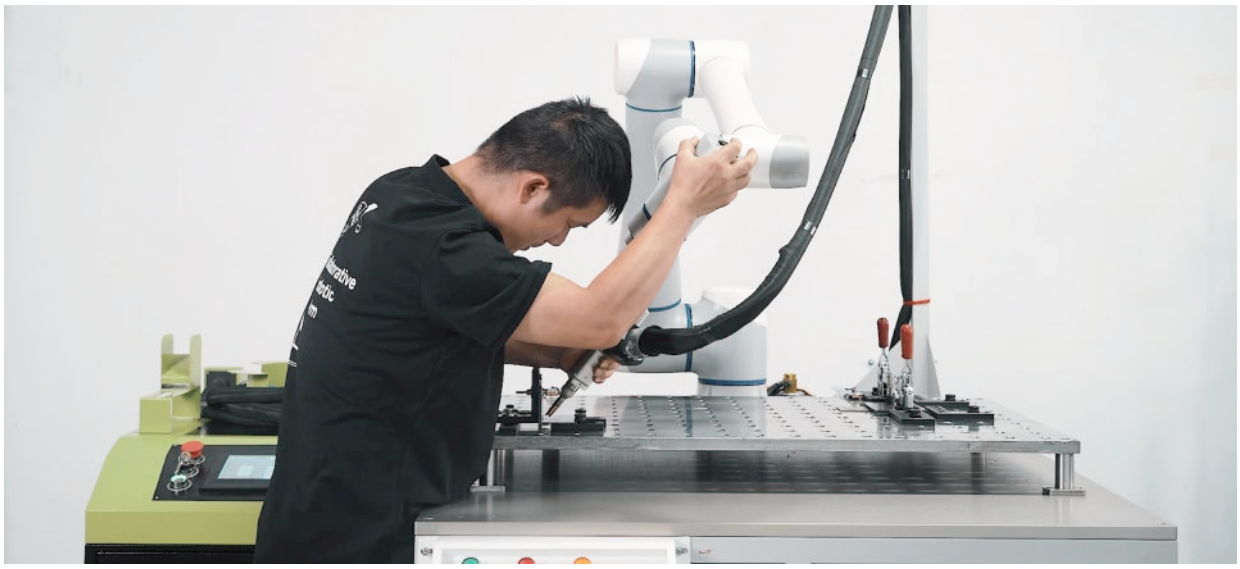



Welding Solution

The Dobot welding solution consists of a modular robot station and the welding process package. It works with various third-party arc and laser welding machines and 3D visual guidance. This mobile solution can be easily redeployed.

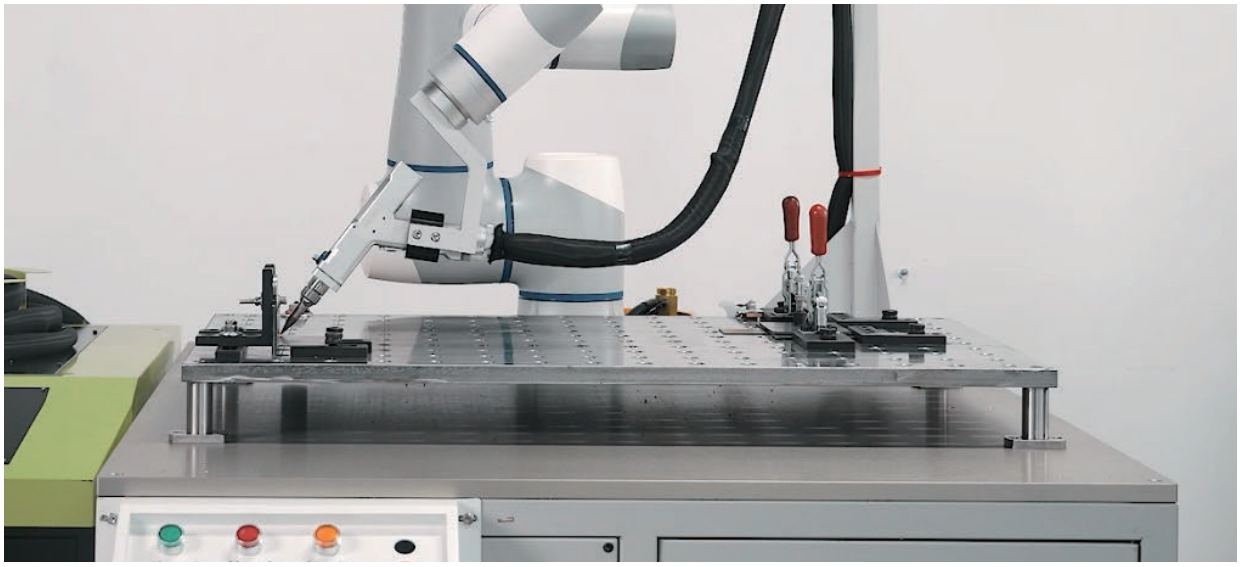
Deploy in 30 Minutes

Create a welding process quickly through drag-to-teach and graphical programming.



Reduce Robot Idle Time with 2 Stations Setup

Pre-set welding processes. Switch between stations with one click to reduce robot idle time.



Enhanced Safety with Collision Detection

The robot stops welding immediately if its end tool accidentally touches a person or an obstacle. Production can be resumed with one click.

Supports Various Weave Patterns

Automate various weave patterns such as triangle, circular, ladder and sine wave to satisfy various welding scenarios.

Triangle

Circular

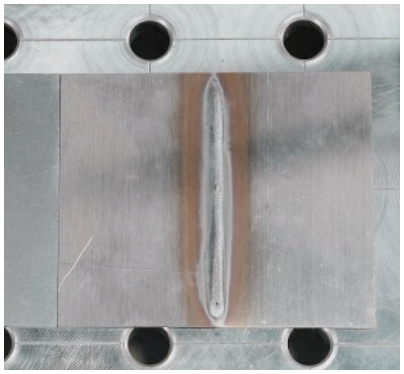
Ladder

Sine Wave

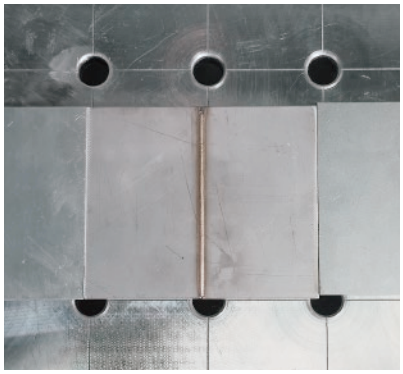
Supports Various Metals Materials

Allows welding of different materials such as carbon steel, stainless steel, aluminum and copper. Ensures neat welding and prevents deformation in various production scenarios

Arc welding: Carbon steel



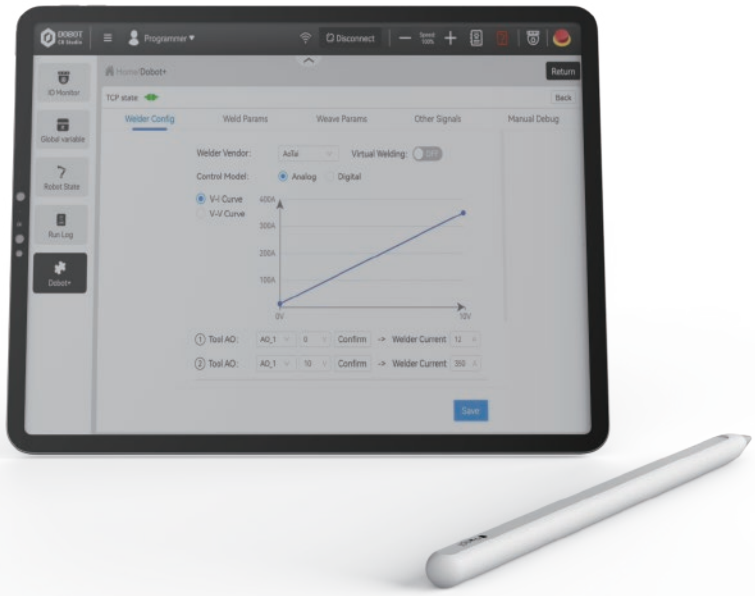
Arc welding effect demo



Laser welding effect demo

Compatible with Popular Welding Machines

Compatible with OTC Daihen, Fronius, Lincoin, EWM, GYS, AOTAI, Megmeet, Whirltech and other laser welding machines.



DOBOT

Palletizing Solution

The Dobot palletizing solution consists of a robot station and the palletizing process package with all modules already connected. Users can effortlessly define pallet patterns. This plug-and-play system can be deployed in 2 to 4 hours.

Specifications

Max Palletizing Height	1,800 mm
Max Palletizing Speed	7 objects/min
Maximum Payload	8 kg
Maximum Pallet Dimensions	1,219 mm x 1,219 mm

Fast Setup and Easy to Use

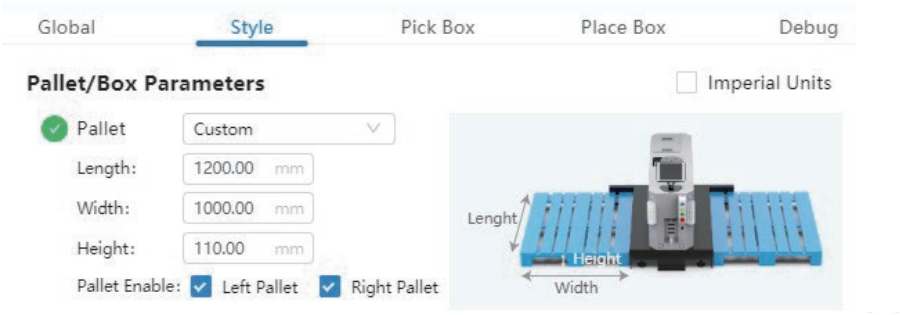
Enter the dimensions of pallet and box. Complete setup in just 4 steps under 10 minutes without any coding knowledge.

Step 1: Enter pallet dimensions.

Step 2: Enter box dimensions.

Step 3: Build pallet pattern.

Step 4: Enter grab coordinates.



Compatible with External Safety Devices

The collaborative robot has 22 safety features including built-in collision detection. For additional safety, the I/O ports can be connected to safety devices such as emergency stop sensors, safety doors, and light curtains.

Remote Tracking of Live Status

Monitor live status and review operation data with our custom designed software.

Screwdriving Solution

The Dobot screwdriving solution consists of a robot station and the screwdriving process package to perform accurate screwdriving using M1.0 to M5.0 screws. The solution supports various working angles and quick redeployment to satisfy the needs for small batch productions.

Easy Creation of Screwdriving Procedures

Use the intuitive screwdriving process package to input the location and specification of the screws. Generate customized screwdriving procedures with just a few clicks.

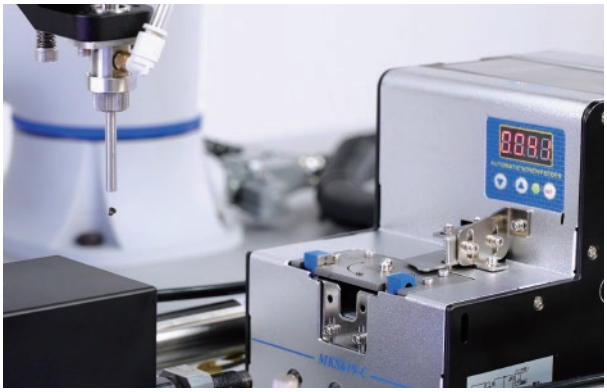
Calibration in 2 Steps

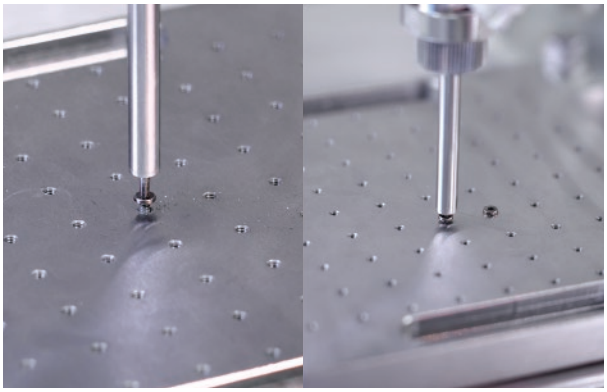
Physically move the robotic arm to screw locations. The robot will automatically adjust posture to allow for screwdriving. This 2-step calibration saves deployment time by up to 80%.

DOBOT

Consistent Quality & Capable Performance

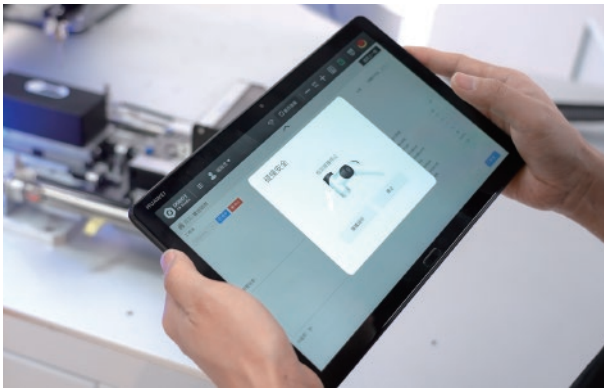
The solution offers < ± 5% torque accuracy to ensure consistency, 620 mm to 1,300 mm working radius, and supports right-side-up, upside-down and sideways installation orientations. It can fit into tight spaces and screw drive from difficult angles.





Safe Collaboration with One Click Reactivation

The solution has passed the safety certifications of CE, NRTL, CR, ISO/TS 15066 and more. 5 adjustable levels of highly responsive collision detection to halt robot operation. To resume task, just click a button.



Works with Various Application Scenarios

Earphone Charging Cases

Screw Size | M1.4 to M1.6

Screw | 0.1 Nm

Robot Recommended | CR5

Printed Circuit Boards

Screw Size | M3

Screw | 0.4 Nm

Robot Recommended | CR5

TV Back Panels

Screw Size | M3

Screw | 0.35 Nm

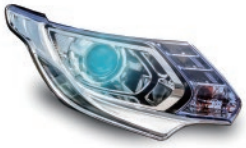
Robot Recommended | CR5/CR10

Car Headlights

Screw Size | M3

Screw | 0.6 to 1 Nm

Robot Recommended | CR10



Car Seats

Screw Size | M10

Screw | 45 Nm

Robot Recommended | CR10/CR16

Car Engines

Screw Size | M10

Screw | 40 Nm

Robot Recommended | CR10/CR16

DOBOT

Service Network

Taking care every need of our customers

Dobot robots are deployed in many industries including automotive, consumer electronics, semiconductor, home appliance and retail. We have established close relations with BYD, Luxshare Precision, Midea Group, Foxconn and many renowned international corporations. Dobot is headquartered in Shenzhen, with branches in Germany, Japan and the US. Through our partner network, Dobot is determined to offer timely, efficient and professional customer services.

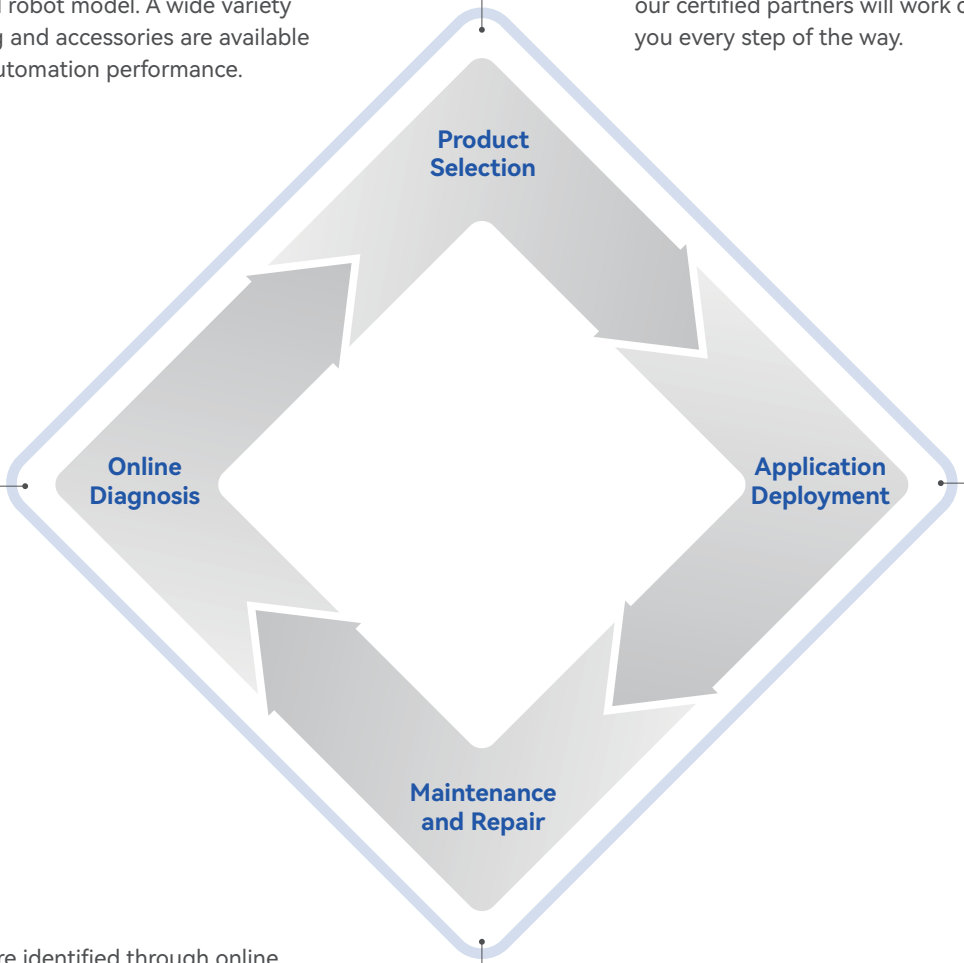

DEA
COBOTICS

Service Guarantees

Dobot offers a complete product life cycle support which includes robot model selection, application deployment, maintenance, repair, and online diagnosis. Our experts are here to ensure you get the most out of Dobot robots.

Initial evaluation includes a detailed simulation of the application environment to shorten the determination of automation feasibility and robot model. A wide variety of end tooling and accessories are available to optimize automation performance.

Dobot offers solutions for various industries and technical training to make sure you are ready for the automation upgrade. We and our certified partners will work closely with you every step of the way.



Once issues are identified through online diagnosis, OTA software updates can be provided across applicable robots to ensure optimal functionality and performance.

Up to 5 years of Dobot robot warranty for extended peace of mind.

Distributor Training

Dobot offers beginner to advanced training courses to provide customers with a structured understanding of collaborative robots. Certificates will be given to participants who pass the course evaluation exams.

7 x 24

Online support

Within 12 hours

Professional solutions

After Sales Service

Keeping robots performing at their ideal conditions is critical. Dobot is committed to provide professional support to our end users to ensure automated processes run as smoothly as possible.

DOBOT

DEA COBOTICS

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Sede operativa - Zona Art. Rosciavizza, 66030 Mozzagrogna (CH)

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