All-perceptive Intelligent Industrial Robot Solution Expert



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ADVANCED MECHATRONICS SOLUTIONS, INC

Safe, Flexible, and Self-learning Collaborative Robot Series

SAFE, FLEXIBLE, AND SELF-LEARNING

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Easy to Use | Easy to Learn and Master | Easy to Control

- Graphical programming, intuitive and easy to understand, easy to start and ready to use
- Intelligent interactive terminal panel, hand-guided learning, and system joint debugging are done in a single hand
- Real-time controls on your mobile phone, PAD smart terminal app, low delay and strict disturbance immunity, and wireless interconnection are minimized

Safe | Safe Production | Worry-free Collaboration

- 0.01 s real-time dynamic monitoring, 15cm space pre-touch perception, and advanced perception for preventive measures
- Based on force sense, electromagnetism, vision, multiple active security protection, layers collaborate to achieve the safest environment
- Spatial perception and online planning are perfectly combined to actively select the best trajectory to bypass obstacles, and adapt to random strains intelligently and efficiently

Convenient | Flexible Deployment, One Step Ahead

- Fast setup requiring only 20 minutes to set up, 1 hour to initiate. It provides portable deployment in a time-saving and efficient manner
- Wide compatibility with mainstream end-effectors and accessories that meet the needs of flexible manufacturing multi-scenarios, and flexibly expand plug and play
- Intelligent adaptation to tailored needs, fast changeovers perfect for customized & flexible manufacturing

Economy | Smart Choice, Cooperation, and Mutual Benefit

- Smaller working space, less protection investment, safe and flexible in limited spaces
- 32,000 hours of service life, advanced energy-feeding technology, 100-watt energy consumption, durable and efficient long-term benefits

Product Features

DOBOT CR Series Safe, Flexible, and Self-learning Collaborative Robot Series

Flexible Deployment, One Step Ahead

DOBOT CR Collaborative Robot Series, simple design and wiring; Fast setup requiring only 20 minutes, 1 hour to initiate Flexible deployment, time-saving and efficient.



Wirelessly Interconnected Completely in Control

The CR series can be controlled through your mobile phone, PAD smart terminal app, low delay and strict disturbance immunity. Supports Android, iOS, Windows, and other platforms and with a high-performance WLAN card, the transmission velocity can reach up to 433Mbps, far greater than ordinary 150Mbps wireless WLAN cards.





Easy to master & Easy to control

The top of the robot sixth axis is equipped with our unique intelligent interactive panel with a proprietary lighting system, which can easily display the robot's status and quickly switch between enabling and disabling states.

With the push of a button, you can obtain drag and move teaching, recording, and reproducing trajectories, while controlling jaws, suction cups, or other custom fixtures and equipment. Users can easily control the system and make joint debugging using only one hand.



Product Features |

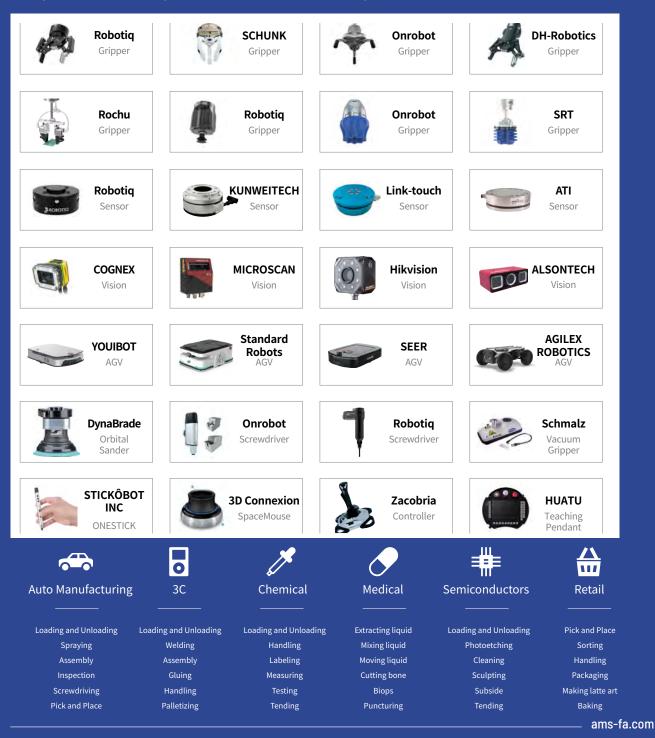
DOBOT CR Series Safe, Flexible, and Self-learning Collaborative Robot Series

Flexible Ecology Expansion

The main applications you can use here are loading and unloading, assembly, testing, handling, screwing, grinding, spraying, and others. To succeed in the aforementioned applications, it is often necessary to configure different ends to combine them together. The most common endpoints include fixtures, vision, force sensors, etc.

Featuring multiple I/O and communication interfaces allows the CR collaborative robot series to be expandable and compatible with many end-of-arm tools:

The plug-and-play approach for a plug-in is easy to match and quick to select, including application scenarios.



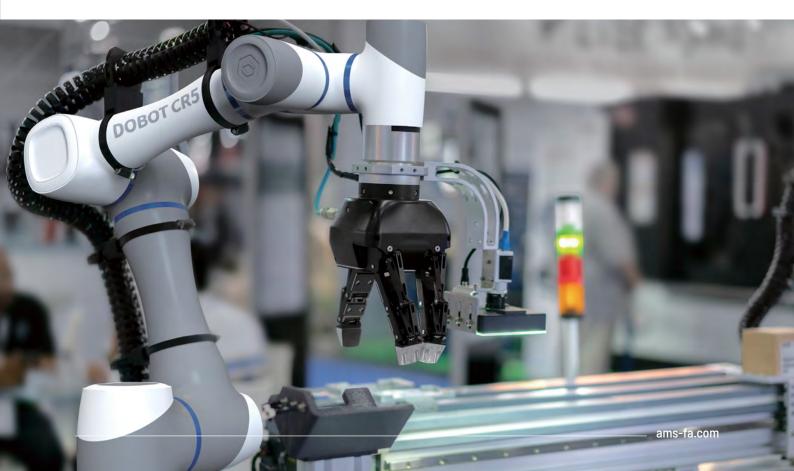
Further SDK Development

Provides a ton of application packages, including SDK development packages, helping you quickly implement industrial and commercial application scenarios.

Supplemented by the corresponding software API, DOBOT cobot constitutes an open platform where most system accessories are supported.

Plug and play function meets the needs of flexible manufacturing across multiple scenarios.





DOBOT CR Series Product Features DOBOT CR Series Safe, Flexible, and Self-learning Collaborative Robot Series

Collision-Free Collaboration

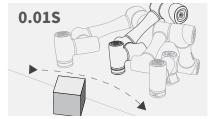
Dobot SafeSkin is a wearable silicone collision detection product specifically tailored for collaborative robots. With electromagnetic induction, a large coverage area, long perception distance, and fast response velocity, DOBOT SafeSkin can react quickly to avoid contact or injuries with electromagnetic objects. Unlike traditional collision detection solutions for collaborative robots, Dobot SafeSkin uses pre-collision and pre-perception technology to provide non-contact proximity perception and collision prevention for collaborative robots, ensuring high productivity and safety solutions for human-robot collaboration.



Long-distance spatial perception 15cm perception distance, effectively protects the operator from the robot arm impacts and



Comprehensive safety guaranteed The sensing ability is unaffected by fabric, plastic gloves, and other shelters and light conditions, creating comprehensive security



High sensitivity and rapid response 0.01ms response sensitivity, achieves higher sensitivity and responsiveness for collaborative human-machine security interactions

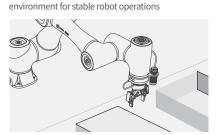


Quick installation

Dobot SafeSkin adopts a humanized design, making it easy to operate and be installed in the fastest wav



Stable anti-interference operations Shielding technology allows you to resist interference from source signals at worksites and support a good

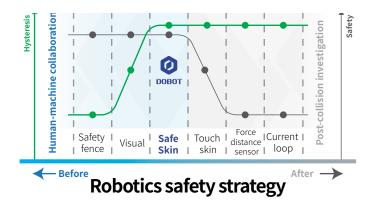


Guaranteed robot performance

While in use, the SafeSkin will rarely cause performance losses for the robot, ensuring efficient production

Wearable silicone collision design

In the non-contact safety program, the industry's first silicone SafeSkin, compared to metal, plastic, and other materials, has higher collision cushioning, feels soft, and is maintainable and self-recoverable; it has a wearable integrated design, is quick to install and easy to start, simple to operate, and ready to use.





Non-contact and Safe Feature



Control Software for CR Cobot Series

DOBOT SCStudio

SCStudio, the Windows control software for CR cobots, supports user-friendly interface programming. It provides users with secondary utilization and a multitude of kinematic algorithms for mechanical structures. SCStudio has a built-in virtual simulation environment for quicker development of various application scenarios.

CRStudio

CRStudio, the mobile control software for tablets, supports graphical programming. It is intuitive and easy to understand even for users with the insufficient programming experience.

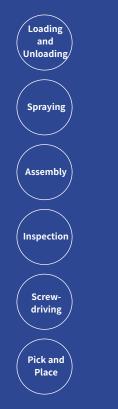
For advanced users, the platform also provides script programming, which can be quickly mastered and seamlessly switched. CRStudio provides multiple programming methods for you to choose from, up to your needs.







Applications



Auto Manufacturing

Automobile manufacturing is one of the most automated industries. Among its four major processes, stamping, welding, and painting have been mostly automated with industrial robots replacing workers and technical engineers who control the robots' performance. Due to the complexity and flexibility, the assembly process is not applicable for traditional robots. Collaborative robots work alongside operators, improving the entire factory's efficiency.

Pain Point Solutions

1. More Flexibility:

Unlike traditional industrial robots, cobots can be deployed more flexibly.

- 2. Reliability: Repeatability is up to 0.02mm, satisfying the installment of high-quality motors.
- 3. Fewer Requirements for Working Environments: Immune to the noise and brightness as a result of welding operations at the workplace.
- 4. Lower Labor Costs: Amid rising labor costs, cobots effectively minimize factory costs.



DOBOT CR Collaborative Robot Series

can be useful in automation scenarios of automobiles and relevant components, including dipcoating, spraying, loading and unloading, screwdriving, pick and place, and machine tending.



Applications



3C

Computers, Communications, and Consumer Electronics make up what's commonly referred to as the 3C industry in China. Manufacturing in the 3C industry features large quantities, frequent updates, significant labor, and highly repetitive tasks.

Pain Point Solutions

1. Flexibility:

Adaptable to a variety of small fractions of production lines.

- 2. Consistency:
 - Delivers consistent assembled products, allowing to have a better quality control system.
- 3. Efficiency:

Compared to human counterparts, robots can work more quickly and efficiently, creating more value.

4. Reliable:

Cobots offer greater reliability and performance than humans and thus better quality products.



DOBOT CR Collaborative Robot Series

are equipped with force sensing and electronic skin devices, which can easily perform 3C assembly tasks (power supply assembly and locking) and 3C loading and unloading (plasma cleaning machine loading and unloading).



Applications



Chemical Industry

In an era when manufacturing is becoming more flexible and intelligent, IoT technologies are penetrating our lives. Bar codes as a carrier for recognizing items have been widely applied in logistics management systems in the chemical industry. Over the years, more and more businesses turn to robots replacing employees to do labelling because of cobots' higher efficiency.

Pain Point Solutions

- Less Requirements for Working Environments: Adaptable to a variety of work conditions, including those with high heat, toxic gases, and radiation.
- 2. Wider Applications:

Applicable to all kinds of labeling of plastics products, such as box bodies, rod bodies, pipe bodies, and shells.

- Accurate and Reliable with Low Error Rates: It can accurately and efficiently attach labels to the designated position and avoid labeling errors, eliminating material mixing.
- Convenient & Easy to Use: Simple single-hand guidance and interactive programming can become useful guides for robots.



DOBOT CR Collaborative Robot Series are used in the production line of a Malaysian chemical company for labeling operations, helping

are used in the production line of a Malaysian chemical company for labeling operations, helping it grow.

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Applications



Semiconductors

Manufacturing states for 46% among the global semiconductor industrial value chain lines. Therefore, it is the most valuable share in the semiconductor industry and can also drive development throughout the entire industry. Among the three major segments of China's mainland semiconductor industry, the manufacturing segment is relatively weak, with a value share of only 26%.

Pain Point Solutions

1. Flexibility:

Adaptable to a variety of small fraction semiconductor production patterns, preventing frequent changeovers and saving time.

2. Efficiency & Reliability:

High velocity and efficient products are a perfect fit for short-run, high efficiency, and fastpaced semiconductor manufacturing, greatly improving the quality of products.

3. Convenient & Easy to Use:

Simple single-hand guidance and interactive programming can become useful guides for robots. They can learn to work quickly, easily meeting all the production requirements for various types of manufacturing, including small batches.



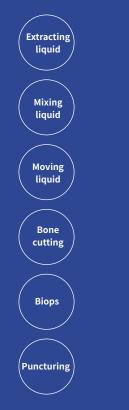
With the above features, DOBOT CR Collaborative Robot Series

have been successfully applied in the semiconductor industry to increase efficiency and reduce costs for enterprises.

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Applications



Medical

As one of the most notable areas, medical professionals are often prone to long working hours, high-intensivity work tendencies, and a special environment. Turning to robots can solve these problems. Medical robots are easy to use and highly adaptable, which can help expand the scope of surgeons' professional skills.

Pain Point Solutions

1. Safe:

Combined with force torques, DOBOT cobots are very safe to work alongside, helping you complete different procedures across various environments.

2. Versatile:

DOBOT cobots can be combined with different types of flexible grippers, greatly enhancing the scope of robotic work.

3. Simple:

The operator can teach the robot's motion paths and fixtures by dragging and dropping, eliminating the need for a handheld demonstrators and allowing high-class hands-on teaching.



DOBOT CR Collaborative Robot Series have been widely used in the medical field.



Applications



Retail

The emergence of unmanned retail stores and smart vending machines has allowed robots to slowly become a mainstay in people's lives. Innovative consumer formats, such as unmanned retail stores and smart vending cabinets, are improving the way of brick-and-mortar stores operate. Novel smart production also reduces costs for the stores' maintenance.

Pain Point Solutions

1. Convenient & Fast:

Customers only need to place an order online, and the robot can immediately process the order.

2. Cost Saving:

Using robots can reduce many labor costs and extend operating hours to 24/7, improving utilization time and reducing rent per unit.

3. Powerful Customer Magnet:

With an intelligent robot system in place, a restaurant or shop will attract more customers. This content will be posted on social media becoming more open to publicity. Eventually, it can lead to improving the store's operating income.



DOBOT CR Collaborative Robot Series have been successfully applied in the new retail industry. CR3

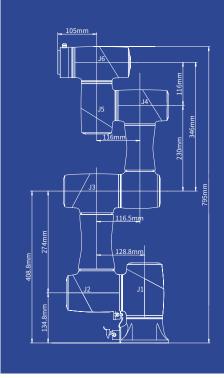
Industries

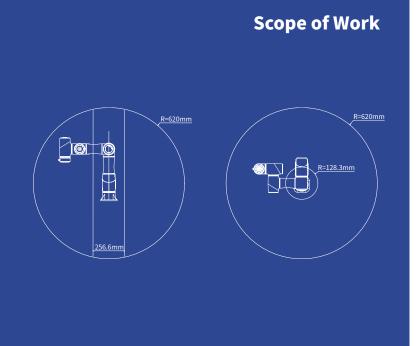
Food & Chemical Furniture & Appliances Metal Processing Auto Components 3C Automation

Applications

Product Line Tracking in 3C Industry Dynamic Screwdriving Production Line Assembly Small Loading and Unloading









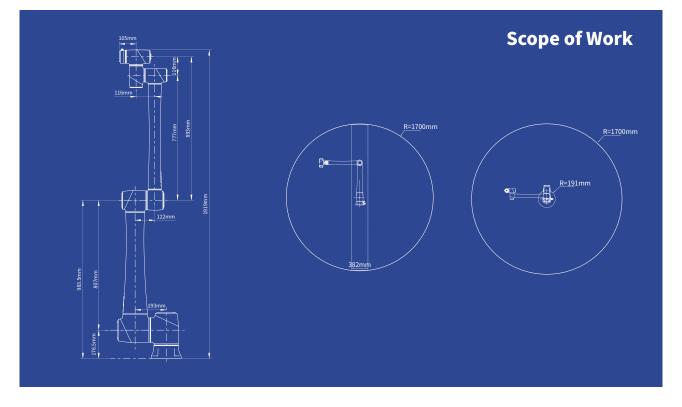
Industries

Food & Chemical Furniture & Appliances Metal Processing Auto Components 3C Automation

Applications

Product Line Tracking in 3C Industry Dynamic Screwdriving Production Line Assembly Small Loading and Unloading





CR5

Industries

3C Automation Food Packaging Furniture & Appliances Metal Processing Auto Spare Parts

Applications

Assembly Line Loading and Unloading Dynamic Screwdriving

Production Line Assembly

Material Processing (Polishing & Sanding)



Scope of Work 105mm <u>R= 90</u>0mm 473m <u>R= 900 mm</u> 57mm Q 122mn 427mm <u>182mr</u> 574mm 147m

CR7

Industries

3C Automation Food Packaging Furniture & Appliances Metal Processing Auto Spare Parts

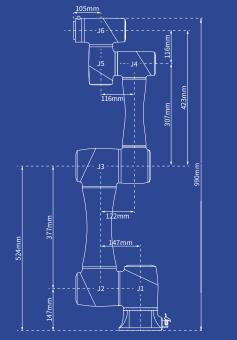
Applications

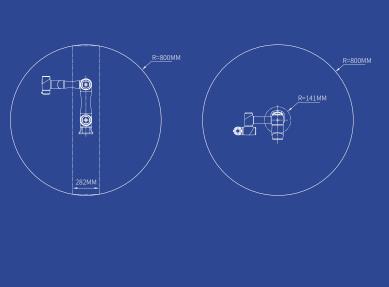
Assembly Line Loading and Unloading Dynamic Screwdriving

Production Line Assembly

Material Processing (Polishing & Sanding)







Scope of Work



Industries

Food & Chemical Furniture & Appliances Metal Processing Auto Components



Heavy Duty Pick and Place Depalletizing & Palletizing Material Processing (Polishing & Sanding)







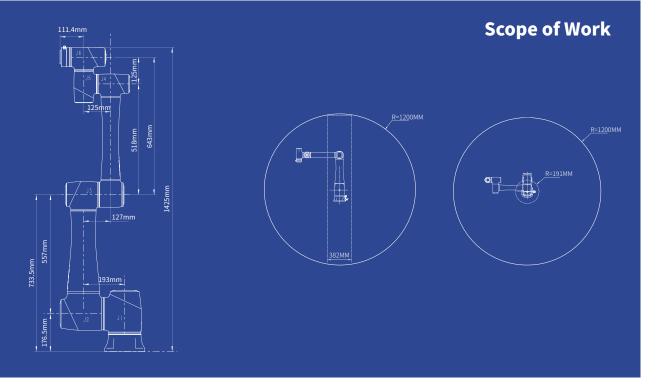
Industries

Food & Chemical Furniture & Appliances Metal Processing Auto Components

Applications

Machine Tool Loading/ Unloading Heavy Duty Pick and Place Depalletizing & Palletizing Material Processing (Polishing & Sanding)





CR16

Industries

Medical & Chemical Furniture & Appliances Metal Processing Auto Manufacturing

Applications

Machine Tool Loading/ Unloading Heavy Duty Pick and Place Depalletizing & Palletizing Material Processing (Polishing & Sanding)



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CR Collaborative Robot Series Specifications

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Prod	uct Name	CR3	CR3L	O CR5	CR7
V	Veight	16.5kg	39.5kg	25kg	24.5kg
	d Payload	3kg	 3kg	5kg	7kg
	Reach	620mm	1700mm	900mm	800mm
Ма	x. Reach	795mm	1919mm	1096mm	990mm
Rate	ed Voltage	DC48V	DC48V	DC48V	DC48V
Max. S	peed of TCP	2m/s	4m/s	3m/s	3m/s
	J1	±360°	±360°	±360°	±360°
	J2	±360°	±360°	±360°	±360°
Joint	J3	±155°	±170°	±160°	360° ±360° 360° ±360° 160° ±160°
Ranges	J4	±360°	±360°	3m/s 3m/s ±360° ±360° ±360° ±360°	
	J5	±360°	±360°	±360°	±360°
	J6	±360°	±360°	±360°	±360°
Max. Speed	J1/J2	180°/s	120°/s	180°/s	180°/s
of Joints	J3/J4/J5/J6	180°/s	180°/s	180°/s	180°/s
End-Effector	DI/DO/AI			2	
I/O Interface	AO		()	
Communica- tion Inter- face	Communication		RS	485	
	DI		1	.6	
	DO/DI	16			
Controller	AI/AO	2			
I/O	ABZ Incremental Encoder		:	1	
	Cable length from body to cabinet	5M			
	eatability	±0.02mm	±0.05mm	±0.02mm	±0.02mm
	nunication			CP, EtherCAT, WIFI	
	Rating			54	
	perature			45°C	
Power (Consumption	120W	300W	150W	150W
М	aterials		Aluminum allo	oy, ABS plastic	

		0	U U	
Prod	duct Name	CR10	CR12	CR16
	Weight	40kg	39.5kg	40kg
Rate	ed Payload	10kg	12kg	16kg
	Reach	1300mm	1200mm	1000mm
Ма	ax. Reach	1525mm	1425mm	1223mm
Rate	ed Voltage	DC48V	DC48V	DC48V
Max. S	Speed of TCP	4m/s	4m/s	3m/s
	J1	±360°	±360°	±360°
	J2	±360°	±360°	±360°
Joint	J3	±160°	±160°	±160°
Ranges	J4	±360°	±360°	±360°
	J5	±360°	±360°	±360°
	J6	±360°	±360°	±360°
Max. Speed	J1/J2	120°/s	120° /s	120°/s
of Joints	J3/J4/J5/J6	180°/s	180°/s	180°/s
End-Effector I/O	DI/DO/AI		2	
Interface	AO		0	
Communication Interface	Communication		RS485	
	DI		16	
	DO/DI		16	
Controller	AI/AO		2	
I/O	ABZ Incremental Encoder		1	
	Cable length from body to cabinet		5M	
	peatability	±0.03mm	±0.03mm	±0.03mm
	munication	ТСР	/IP, Modbus TCP, EtherCAT, W	/IFI
	P Rating		IP54	
Ten	nperature		0°C -45°C	
	Consumption	350W	350W	350W
M	laterials		Aluminum alloy, ABS plastic	

Controller Specifications

Model	CC16X
Size	360mm (Length)*160mm (Width)* 402.4mm (Height)
Control Cabinet Weight	12kg
Controlled Axes	6 Axes + External Expansion Axes
Power Input	Single Phase 110V/220V AC, 7.5A, 50/60HZ
Power Output	48V, 20A
Supported Motor Power (Max)	-
Braking Resistors	Four, 17W, 10Ω
Supported Encoder Types	-
Communication Interface	EtherCAT (for External Axes), Ethernet
	16 Digital Outputs
	16 Digital Inputs/Outputs (Multiplexing)
I/O Interface	2 Analog Outputs (Voltage: 0V-10V, Current: 4mA-20mA)
	2 Analog Inputs (Voltage: 0V-10V, Current: 4mA-20mA)
	1 Incremental Encoder ABZ Input
Teaching & Playback Method	Hand-Held Teaching Pendant/APP
Drogramming Longuage	Script
Programming Language	Graphical Programming (Blockly)
Installment	Floor
Environment	Temperatures: 0°C ~45°C , Humidity: \leqslant 95%, No Condensation
Protection Rating	IP20
Cooling Method	Forced-Air Cooling
Safety Features	Emergency stop function, reserved external security interface that can be controlled by I/O interface
Indicator	The indicator light remain red when the power is on and be off when the power is off.
	Diagnostic Software Tool
Maintenance	Power-off Zero Save
	Reserve Remote Service

AMS

MG400 Ultra-small desktop robot arm

SAFE, FLEXIBLE, AND SELF-LEARNING

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DOBOT MG400



ADVANCED MECHATRONICS SOLUTIONS, INC

DOBOT MG400 is an ultra-small desktop robot arm that occupies space smaller than A4 paper. The MG400 is designed for diverse mini-batches of automation with a maximum load of 750 grams and a 440 mm arm that meets the needs for lightweight desktop applications, conversion teaching, collision detection, and other human-machine collaboration features. They allow the MG400 to apply rapid deployment of production line applications, providing a highly competitive choice for automated intelligent production.

Small Space Occupation

To fully utilize production space and easily integrate existing production environments, the MG400 has adopted a controller, the body integrated structure design, and the base frame area of only 190mm X 190mm that can fit A4 paper space.

Professional Performance

The M400 is equipped with a high-precision absolute encoder integrated into servo motors. Coupled with a self-developed servo drive and controller, the robot's repeatability can be measured up to $\pm 0.05 \text{mm}.$

With the vibration suppression algorithm in the controller and ensured trajectory accuracy of multi-axis motion, the repeatability bandwidth stabilization time is accelerated by 60% and residual vibration by 70%.

Simplicity Means Productivity

Simplicity is integrated into every dimension of the robot, fully reducing the difficulty of deploying automation in small and medium-sized enterprises.

Shorter deployment time: integrated & compact design, flexible & easy to deploy, plug and play;

More programming options: trajectory reproduction, graphical programming, and Lua script programming, which are ideal for applications of different complexities and developers with different programming skills;

Higher programming efficiency: an intuitive programming interface and guidedinteractive design can greatly improve efficiency and lower the barriers for robot applications;

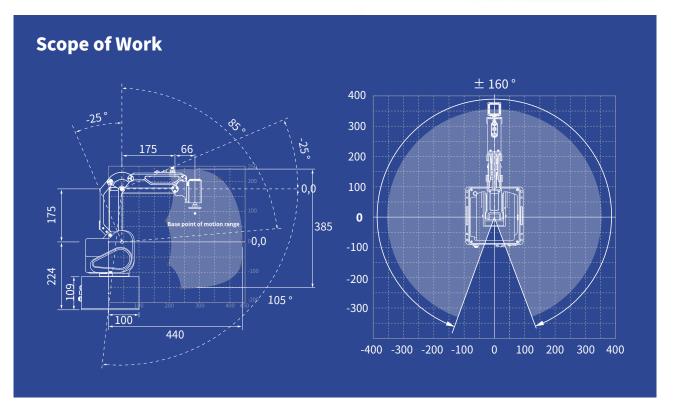
Higher debugging efficiency: when resetting the robot for debugging, lighter and smoother pre-teaching combined with robot power compensation algorithms reduces point teaching time by more than 80%.

Integrated Collaboration Helps Automation

The collision detection function ensures safety. MG400's replacement of highly repetitive, standard procedures enables high-efficiency configurations of human-machine collaboration. MG400 can make desktop collaboration possible that will reduce costs and improve the quality of manufacturing for enterprises.

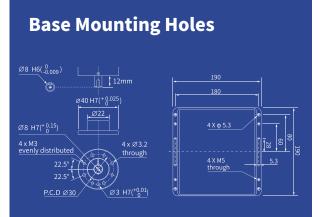






Specifications

Product Name		MG400
Product Model		DT-MG400-4R075-01
Number of robot axes		4
Payload		500g (Max 750g)
Reach		440mm
Repeatability		±0.05mm
	J1	±160°
	J2	-25° - 85°
Range of joint motion	J3	-25° - 105°
	J4	-360° - 360°
	J1	300° /s
May Speed of Leinte	J2	300° /s
Max. Speed of Joints	J3	300°/s
	J4	300° /s
Power Supply		100-240 V AC, 50/60 Hz
Rated Voltage		48V
Rated Power		150W
Communication		TCP/IP, Modbus TCP
Installment		Table Installation
Weight		8kg
Base Size		190mm × 190mm
Working Environment		0 °C -40 °C
Application Software		DobotStudio 2020, SCStudio

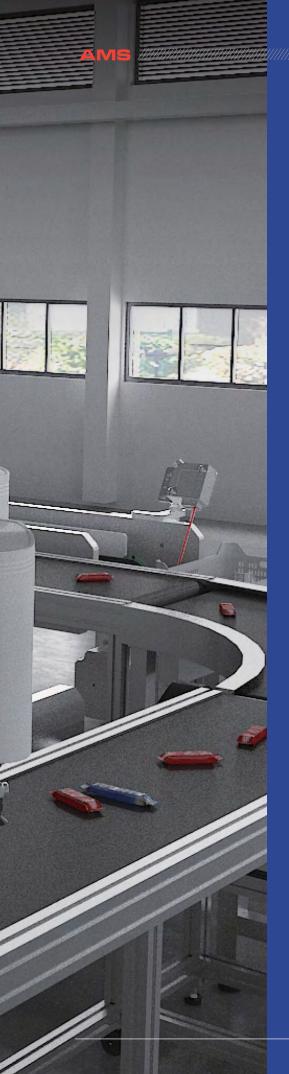


Magician Pro		Digital Input	16
LWN1 LWN2 USB1 USB2 ENC	Interface	Digital Output	16
		Ethernet	2
		USB 2.0	2
O GND 123458781 CBEEBBBEEL O		Encoder Input	1
		Digital Input	2
(O) O) Termina	al Interface	Digital Output	2
			1

DOBOT M1 PRO Collaborative SCARA-Robotic Arm

M1 Pro

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DOBOT M1 Pro is a lightweight, cost-effective, and fully-aware human-machine collaborative robotic arm for light industries. With high precision, vast working range, and complete functions, the M1 Pro has a repeatable end positioning accuracy of 0.02mm and a maximum arm span of 400mm. M1 Pro is perfect for industrial welding, visual identification sorting, PCB plug-in, and other functions, suitable for all types of assembly line operations. The M1 Pro supports secondary development, providing users with a wide scope of use.

Innovative Structural Development

Being a cost-effective collaborative intelligent robotic arm for light industries, M1 Pro is an integral part of innovative structural development. The entire integrated machine design embedded in the electric control cabinet eliminates wiring and cabling issues, improving the efficiency between the servo drivers and control system greatly.

With lightweight structural designs of large and small arms, the robot works more stably, moves more flexibly and quickly, and is perfectly competent for various applications.

While adopting encoders with higher accuracy and stronger anti-interference capabilities, control accuracy is significantly improved, and jitter phenomena at low velocity are effectively reduced.

Adopts the Mature Intelligent Industrial Controller Architecture of DOBOT

M1 Pro has more powerful functions, more stable performance, and more diverse applications. It also acquires more sensitive collision detection and dragging teaching functions, enabling the robots with more collaborative attributes.

New incremental differential encoder interface extends dynamic capture and tracking applications.

Supports continuous trajectory interpolation, more uniform motion, and smoother trajectory; the application of point gluing provides more stable conditions.

Supports parallel processing, such as multi-threading and IO controls in motion, effectively shortening robot motion beats.

More Concise and Humanized Operation Mode

Supports app programming and debugging, and can be directly controlled by smart terminals, such as mobile phones and PAD.

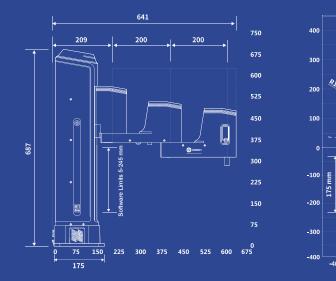
Innovative programming and an interactive interface for more efficient monitoring and debugging.

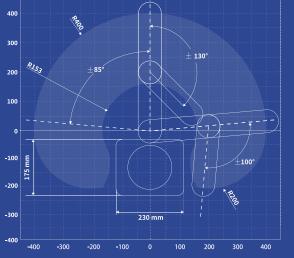
Supports users in secondary development and remote control, extending the opportunities.





Scope of Work

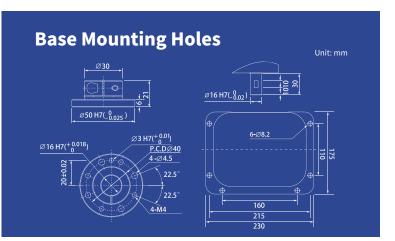






Specifications

Product Name	M1 Pro	
Arm Length	400mm	
Rated Payload	1.5kg	
	Classification	Software Limits
	1.5kg	-85° -85°
Max. Range of motion	Small arm	-130° -130°
	Z-axis Greasing Screw Rod	5mm-245mm
	End rotation	-360° -360°
	Joint velocity of big and small arms	180°/s
Max. motion velocity	Classification Software Lim Big arm -85° -85° Small arm -130° -130° Z-axis Greasing Screw Rod 5mm-245mm End rotation -360° -360° Joint velocity of big and small arms 180° /s Resultant velocity of big and small arms 2000mm/s Z-axis velocity 1000mm/s	2000mm/s
	Z-axis velocity	1000mm/s
Repeatability	±0.02mm	
Power Supply	100V-240V AC, 50/60H	Z
Communication Interface	Ethernet、Modbus	
I/O	16 Digital Outputs 16-channel digital inpu	ut
Control Software	DobotStudio 2020, SCStu	ıdio



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Base Interface		Terminal Interfac	e
Base Interface Digital Input	16	Terminal Interfac Digital Input	e 4
			-
Digital Input	16	Digital Input	4
Digital Input Digital Output	16 16	Digital Input	4
Digital Input Digital Output Ethernet	16 16 2	Digital Input	4



CONTACT AND SUPPORT

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