

CRA Series Collaborative Robot

New Benchmark for Collaboration



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Dobot Robotics

Dobot Robotics, a leading global R&D and manufacturing company specializing in intelligent collaborative robots, has consistently pushed the boundaries of innovation. They have successfully developed the world's initial desktop collaborative robot and introduced the groundbreaking non-contact SafeSkin. Dobot Robotics takes pride in being the first-ever robot manufacturer to offer a diverse range of products, catering to payloads spanning from 0.5 to 20kg. These state-of-the-art solutions have been widely adopted across multiple industries, revolutionizing productivity in global intelligent manufacturing.

Dobot's ultimate goal of achieving "the liberation of all unnecessary labor and the realization of optimal collaboration between humans and machines" will eventually be realized.

72,000 Robots Sold Globally

1300+

Intellectual Property Rights Owned

Trusted by Fortune 500 Companies







Collaborative Robot Exporter in China



Channel Partners across the Globe

Why Choose Dobot Collaborative Robots?



Easy Deployment

Dobot's collaborative robots, being lightweight and compact, can be deployed with ease, eliminating the need for modifications to the existing production line or the installation of guardrails. By sharing the workspace with workers, they enhance the utilization of space on the production line effectively. Owing to their simple and user-friendly programming method, Dobot's collaborative robots reduce debugging time, enabling swift adaptation to diverse, small-batch production. They can also function as workstations, seamlessly transitioning between different stations to accommodate the need for flexible production.

Dobot offers a plethora of interfaces that facilitate the plug-and-play of mainstream peripherals, including grippers, vision, and extension axes. This results in expedited deployment and enhanced production efficiency.

Easy Operation

Dobot is an industry pioneer in implementing Blockly programming for collaborative robots. The functions of the robot are represented as blocks, offering a more intuitive and comprehensible approach. Users are not required to learn complex programming syntax. Instead, they can assemble the necessary blocks to create a program, providing flexibility and ease of use. With no prior experience, mastering Blockly programming takes just 45 minutes. Dobot has also developed specialized process packages for specific applications such as welding and palletizing. After simple parameter settings, programs can be generated, significantly reducing the complexity of robot debugging and shortening the development process. This makes robot applications quicker and more flexible.

Dobot's collaborative robots, equipped with flexible control modes, can be operated through a variety of terminals including PCs, tablets, and teaching pendants. The use of different terminals in various scenarios enhances the efficiency of robot debugging.



Safe Collaboration

To enhance the speed of human-machine collaboration, the industry's sole mass-produced safety skin utilizes non-contact detection to identify obstacles within a 15 cm range. This allows the robot to halt its movement before any collision, resulting in a fourfold increase in efficiency. Additionally, a new generation of independent safety controller, compliant with PLd Cat3 level, is adopted. This controller monitors real-time information such as position, speed, torque, and more for each joint. With over 20 safety features and successful tests for ISO 13849-1, ISO 10218-1, and ISO 15066, this product significantly reduces safety risks. Moreover, users can customize up to 10 sets of dual redundant safety I/O to suit their specific application scenarios.



Fast Payback

Companies can greatly benefit from the adoption of collaborative robots, as they enable efficient labor allocation and facilitate cost reduction. These robots are incredibly convenient to implement, as they do not require any additional protective measures. Additionally, their programming process is simplified, allowing for a significant reduction in retrofitting time from months to less than a week. With a payback period of just 12 months, these robots offer a quick and effective solution for enhancing efficiency and reducing costs.

Collaborative robots offer a more cost-effective solution. By implementing incremental replacements, small and medium-sized enterprises can upgrade their automation processes without putting excessive strain on their capital investment. Moreover, unlike conventional equipment such as linear modules, collaborative robots possess the flexibility to seamlessly switch between multiple tasks. This adaptability enables them to effectively meet the evolving business needs of enterprises while maximizing equipment utilization.



Reliable Quality

Dobot robots are synonymous with high precision and reliability, boasting an industry-leading positioning accuracy of ± 0.02 mm. Through innovative design and over 100 design verifications, Dobot guarantees enhanced productivity and superior quality when handling long and intricate tasks. As the largest collaborative robot production base in China, Dobot's reputation is unmatched. Prior to leaving the factory, each Dobot robot undergoes more than 40 rigorous tests and undergoes high-precision calibration to rectify dynamic parameter errors. This rigorous process serves as a strict assurance of their exceptional quality and excellence.

CRA Series Collaborative Robot

Dobot has always been motivated by the pursuit of innovation and excellence. With over 1,000 global partners in the forefront of intelligent manufacturing, Dobot has successfully introduced the CRA series of collaborative robots. These robots excel in performance, safety, expansion, and flexibility, providing a superior solution for collaborative robotics. Undoubtedly, integrating these robots into your production will greatly enhance efficiency and establish a path towards intelligent manufacturing.

Performance

Fast, accurate and stable with industry-leading motion performance

Top-class speed

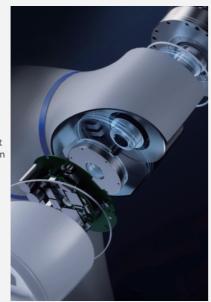
With a new all-in-one design, the joint speed has been increased to the industry's fastest one of 223°/s to fit in more application scenarios. The production beat of typical applications such as material handling can be increased by 25%, resulting in higher economic efficiency.

Fast response

The joint servo utilizes the EtherCAT bus, offering a bandwidth at the 100M level and a joint response speed at the millisecond level. This significantly enhances the motion speed and trajectory smoothness, enabling the robot to execute a wide range of tasks with greater efficiency.

Precise positioning & stable motion

Each Dobot cobot undergoes precise calibration with a laser tracker. This process ensures an absolute positioning accuracy of less than 0.4mm, enabling the robot to handle high-precision tasks. Along with an upgraded motion control algorithm, it achieves proprietary vibration suppression for <0.4 mm vibration during motion, allowing faster and more stable operation.



Safety

Multiple safety protections to reduce production risks

20+ safety features

A new generation of independent safety controller, compliant with the PLd Cat3 level, has been incorporated. Equipped with over 20 safety features, this product has successfully passed safety tests including ISO 13849-1, ISO 10218-1, and ISO 15066. Following a comprehensive risk assessment, it can work in collaboration with people without the necessity for additional fencing, thereby meeting stringent safety standards.

Electromagnetic brake

In the event of an unexpected power outage, the robot is capable of braking swiftly within 18 ms, with a drop of less than 1 mm. This feature effectively safeguards against potential damage to equipment or products.

Custom safety strategy

Equipped with a virtual fence function and advanced non-contact safety skin, users can devise safety strategies that are more suitable for their actual production environment. This maximizes the assurance of safe production.







24 DIs and 24 DOs

The DIs and DOs of the general purpose interface have been expanded to 24, allowing for PNP and NPN switching. These interfaces can be configured into over 30 robot control and status feedback functions, catering to a wide range of equipment connections. This enhances convenience and flexibility in industrial automation enabling seamless integration and control of equipment.

Multiple communication protocols

The robot comes with a range of communication methods, such as Modbus TCP/RTU, EtherNet/IP, and PROFINET®, allowing for seamless connection to popular PLCs and HMIs. This enables a more efficient and convenient integration and configuration of equipment



Multi-terminal operation

Dobot provides a variety of operation modes, including computer, tablet, and teaching pendant. It supports seamless switching between wired and wireless connections, providing added convenience for diverse usage scenarios.

Intelligent interactive panel

Users can effortlessly carry out various tasks, including enabling, dragging for teaching purposes, and controlling the gripper, through the intelligent interactive panel. By offering more adaptable and user-friendly operation modes, the application and debugging processes of the robot are significantly enhanced, resulting in improved efficiency.

Compact control cabinet

The control cabinet has been reduced in size by 20%, providing equipment manufacturers and composite robot applications with a more compact solution. Additionally, there is an option to include IP54 protection, which enhances its suitability for challenging industrial environments that involve oil and dust

Abundant standard interfaces to reduce application costs



Flexible operation for ease of use



CRAS Series

Safety is crucial in human-machine collaboration. The best solution is a safety mechanism that maintains efficiency while prioritizing safety. Dobot SafeSkin, the industry's only mass-produced safety skin, stands out by enabling non-contact monitoring and collision avoidance. This innovative technology allows collaborative robots to operate at an impressive speed of 1 m/s, four times faster than the international standard. Unlike traditional methods that require robots to slow down to avoid collisions, Dobot SafeSkin enhances efficiency and safety simultaneously.

The CRAS series, built upon the efficient, flexible, and user-friendly CRA series and enhanced with Dobot SafeSkin, enables you to accomplish human-machine collaborative production with increased efficiency and safety.



All-round protection

The SafeSkin is a wrap-around installation with comprehensive protection and excellent body perception, which is not affected by factors such as cloth and plastic gloves.



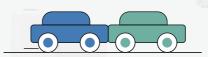
SafeSkin technology allows CRAS series robots to monitor human-machine collision risks in real-time. When the operator enters the collaboration zone, the robot can increase the maximum speed of collaboration up to 1 m/s*, four times faster than traditional collision detection methods, while maintaining safety.

*The data is based on the test results obtained by Dobot Laboratory under controlled conditions. As an example, CR10AS can effectively reduce the risk of robot collision at a speed of 1 m/s. A comprehensive safety risk assessment is required for actual applications.



When an obstacle is detected by the SafeSkin, the CRAS collaborative robot is capable of activating its safety mechanism in just 0.01 seconds. Consequently, it promptly halts its operation within 0.1 seconds, effectively preventing collisions or minimizing the impact to enhance safety protection.

Safety Mechanism Comparison



Collision Detection Brake after detecting a collision



Safety and efficiency cannot be achieved simultaneously

To ensure the collision force meets safety requirements, the operation speed has to be reduced



15cm Omnidirectional Pre-collision Perception

The SafeSkin employs a non-contact monitoring system that enables the robot to detect obstacles within a 15 cm range in real-time. This system forms a 360° anti-collision barrier, providing the robot with additional braking distance and ensuring its safe operation.



SafeSkin system detects when collision risk is eliminated, allowing seamless resumption of production program without manual intervention, enhancing human-robot collaboration efficiency.

*The safety recovery mode can be customized.





Ecosystem Plugins

Dobot provides a broad array of ecosystem plugins that are compatible with various types of grippers, force sensors, and 2D/3D vision accessories. Users can utilize the existing APIs to expedite the development of applications.

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Powerful Log Function

You can access the robot log to review past statuses, operation records, and details of parameter modifications whenever needed. This allows you to swiftly identify issues and minimize any potential downtime.

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Teaching Device (Optional)

Dobot collaborative robot teaching device has a lightweight design that integrates aesthetics and ergonomics for a comfortable grip. The interactive design is excellent, balancing safety and flexibility. It improves robot debugging efficiency and provides a great user experience.

Blockly Programming

The blocks are easy to read and intuitive, allowing users to program robots by combining and splicing them. This balances flexibility and ease of use.

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Script Programming

Using flexible LUA script programming, experienced developers can create complex programs efficiently and handle advanced applications with ease.

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Motion	?	Vait(5000)		
Motion Relative	?	for line in file_read:lines() do local result = split(line, ~~)		
Motion Params	?	<pre>local j_Point = (joint = (result[1], result[2], result[3], result[4], result[5], result[6] print("jointPoint=", j_Point)</pre>		
Controller IO	?	MovJ(J_Point)		
Tool	?	<pre>Wait(3000) local Jointparams = GetAngle()</pre>		
TCP&UDP	?	for k=1.6 do file write:write (tostring(jointowrwws.joint[k]))		
Modbus	?	file_write:write ("\t")		
+ Bus	?	end file_write_write (`\n`)		
🗄 Program Manage	?	file_write:flush() Nait(100)		



Process Package Support

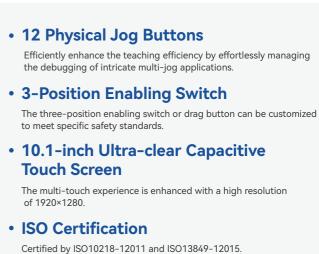
Various application process packages like welding, palletizing, and CNC are offered. Programs can be customized by tweaking parameters to improve robot application efficiency. Moreover, specialized process packages can be tailored to suit specific application needs.

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Virtual Controller

Offline programming enables program operation, debugging, and verification to be conducted without the need for robot connection, thereby expediting project implementation

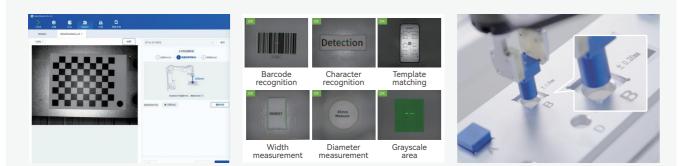
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VX500 Smart Camera

The robot's pick-and-place applications become more precise with the plug-and-play 2.5D vision technology.



Deeply Integrated with **CRA Plug and Play**

The VX500 smart camera integrates the camera, lens, light source, and vision controller. The software is built into DobotStudio Pro, with one-click automatic calibration. The vision plugin can be directly called through Blockly programming, enabling CRA series vision applications in just 30 minutes.

Versatility **Easily Achieve 'Hand-eye Coordination**

Visual positioning, presence detection, feature counting, barcode recognition, OCR character recognition, and size measurement are supported., making it easy to build various vision solutions.

High-precision 2.5D Vision Positioning Simplify Mobile Grasping

The self-developed 2.5D algorithm can accurately identify scene height and tilt changes, and achieve a spatial compensation accuracy of ±0.26 mm, easily solving the problem of mobile grasping positioning. It is widely used in scenarios such as composite robot's mobile handling and loading and unloading.



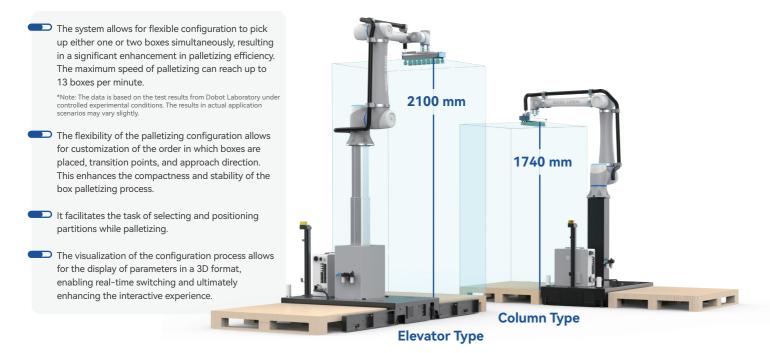
Open DOBOT Ecosystem

The DOBOT Ecosystem embraces the principles of openness, compatibility, and user-friendliness, working closely with ecosystem partners to develop a range of complementary components. The CRA series offers an RS485 interface at both the end-effector and the control cabinet, facilitating the integration of ecosystem accessories like grippers, 2D/3D cameras, and force sensors through a plug-and-play approach. Moreover, the provision of standard SDKs and extensive DEMO case source code enhances the efficiency of secondary development, catering to a wide range of application requirements.



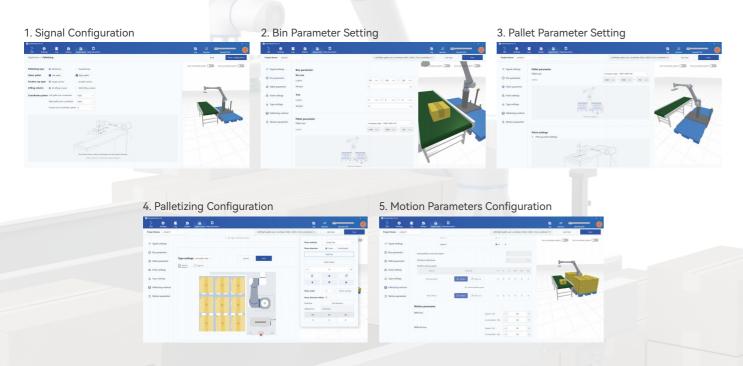
Palletizing Solution

- The new generation CR10A\20A collaborative robot enhances palletizing speed to 8-13 items per minute, surpassing industry standards. With a maximum payload of 20 kg and a maximum palletizing height of 2100 mm, it effortlessly caters to the requirements of various sectors including food, beverage, and pharmaceutical industries.
- With the self-developed palletizing process package, users can swiftly configure palletizing patterns without the need for programming. This enables the initiation of palletizing applications in as little as 30 minutes.
- DOBOT offers integrators the opportunity to develop customized palletizing solutions with the help of its palletizing method and script support.



No Programming Required

Complete configuration in 30 minutes, 5 steps to start palletizing application

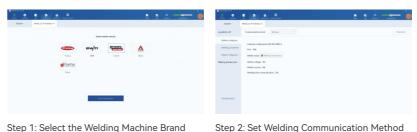


Welding Solution

- than 0.4 mm. This calibration ensures high consistency in weld seam and stable welding quality.
- in flexible operations across multiple workstations.
- CRA robots have a user-friendly programming interface, making them easy to program. They also offer a convenient and efficient debugging batch and multi-variety welding production in enterprises.
- tracking, multi-layer multi-pass welding, arc starting retry, mid-way arc breaking, re-ignition, and wire sticking removal. *Note: Functions are continuously being developed and iterated.

Four Simple Steps to Set Up

With the welding process package, starting the welding application is easy with just four steps: machine matching, parameter configuration, drag and drop teaching, and graphical programming for welding stimulation.



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Step 3: Set Welding Parameters

Step 4: Graphical Programming, Start Welding

Compatible with over 10 different welding machine brands Provides multiple communication methods such as DeviceNet, Modbus, and analog signals

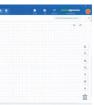


• All collaborative robots in the CRA series have undergone precise dynamic parameter calibration, guaranteeing welding trajectory accuracy of less

• The CRA series collaborative robots are compact, sleek, and agile. They are small, lightweight, and can perform various tasks effortlessly. They excel

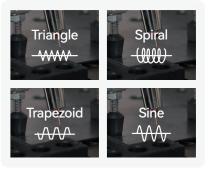
process, eliminating the need for skilled robot engineers for welding application programming. These robots effectively meet the demands of small

• The welding process package is compatible with over 10 welding machine brands and supports advanced features like laser positioning, laser



Supports Multiple Arc Weave Modes

The welding system supports for four distinct arc weave modes, specifically triangle, spiral, trapezoid and sine catering to the diverse requirements of various welding situations.



Diverse Application Scenarios

DOBOT has been instrumental in assisting numerous Fortune 500 companies across various sectors in achieving remarkable levels of automation. The recently introduced DOBOT CRA series presents a diverse range of load capacities, ranging from 3-20 kg, and an extensive array of arm lengths. This comprehensive offering caters to over 15 industry application scenarios, encompassing 3C, automotive, semiconductor, metal processing, food, chemical, medical, and new retail. Choosing the DOBOT CRA series will undoubtedly position you as a frontrunner in the realm of intelligent manufacturing.

	エモルS 蓝思科技	领益智造 LY iTECH	JABIL	FOXCONN	Profession southers 闻泰科技
Panasonic	KYOCERa	Hisense	Midea	CATL 宁德时代	PORSCHE
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FESTO	OMRON	Honeywell	BECKHOFF	MinebeaMitsumi Pasada ta Grante Ville Minagh Difference	INNOVATOR IN ELECTRONICS

Automobile



Gearbox Screw Locking



Car Door and Body Part Assembly



Automobile Glass Gluing

Metal Processing



CNC Machine Loading/Unloading



CNC Machine Loading/Unloading (SafeSkin)



Carbon Steel Frame Welding

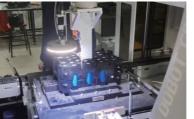
3C Industry





Home Appliance Motherboard Burning and Handling

Lithium Battery Industry





Energy Storage Battery Screw Locking

Semiconductor





Die Bonder Loading/Unloading

Plastic Chemical



Injection Molding Machine Assistance

Commercial Retail





Robot Noodle Restaurant

Latte Art Coffee Shop







Mobile Phone Gluing

Electronic Component Sorting

Battery Testing Loading and Unloading



Battery Core Welding Loading and Unloading

Semiconductor Plastic Encapsulation Loading/Unloading



Wafer Loading/Unloading

Glue Spraying Machine Loading/Unloading



Plastic Lid Loading/Unloading



Advertisement Shooting

Parameters



Product I	Name	CR3A	CR5A	CR7A	CR10A	CR12A	CR16A	CR20A
Weight		17.5 kg	25 kg	24 kg	40 kg	38.5 kg	38 kg	73 kg
Maximum Payload Working Radius Maximum Linear Speed		ad 3 kg 5 kg 7 kg 10 kg 12 kg		12 kg	16 kg	20 kg		
		620 mm	900 mm	800 mm	1300 mm	1200 mm	1000 mm	1700 mm
		2 m/s						
Joint Ranges		J3: ±155° other joints: ±360°	J3: ±160° other joints: ±360°	J3: ±165° other joints: ±360°				
	J1/J2	180°/s	180°/s	180°/s	150°/s	150°/s	150°/s	120°/s
Maximum Joint Speed	J3	223°/s	180°/s	180°/s	180°/s	180°/s	180°/s	150°/s
	J4/J5/J6	223°/s	223°/s	223°/s	223°/s	223°/s	223°/s	180°/s
	DI	2	2	2	2	2	2	4
End-Effector I/O Interface	DO	2	2	2	2	2	2	4
	AI	2	2	2	2	2	2	4
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Repeatability		±0.02 mm	±0.02 mm	±0.02 mm	±0.03 mm	±0.03 mm	±0.03 mm	±0.05 mm
IP Rating		IP54						
Temperature R	Range	0~50°C						
Typical Power (Consumpti	ion 120W	150W	150W	350W	350W	350W	500W
Installation					Any Angle			
Length of Cab Body to Electr		t ^{5 m}	5 m	5 m	5 m	5 m	5 m	6 m
Material				Alu	uminum Alloy, ABS Pla	stic		

Robot Control Cabinet

		CC262
Dimensions		345 mm*345 mm*145 mm
Weight		9.5 kg (AC input), 8.5 kg (DC input)
Input Power		AC Input: 100~240V, 47~63Hz DC Input: 30~60V
IO Power		
IO Interface	DI DO AI AO	2 Cha 2 Cha
Communication Interface	Network interface USB 485 Interface Encoder	2, used for TCP, 1, u
Working Environment	Temperature	
IP Rating		
Teaching Method		
Adaptable Models		CR3A~CR16A

DOBOT Collaborative Robot Teaching Device

Product Model	DT-TP10-3PE-N		
Dimensions (Length*Width*Height)	290*180*41 (mm)		2 ::
Resolution	1920*1200@60Hz		× 0 0
Screen Size	10.1 Inches	∰ 0 (2) din (2) statu (2) 52	B Q
P Rating	IP54	8 H 8 T	9. * *
Weight	1.02 kg		* Ē
Standard Cable Length	5 m	4/26	¢m >
Material	PC + ABS		



CC263

400 mm*400 mm*175 mm

15.5 kg (AC input)

AC Input: 100~240V, 47~63Hz

24V, Max 3A, 0.5A max. per channel

24 Channels (NPN or PNP) 24 Channels (NPN or PNP) Channels, Voltage/Current Mode, 0~10V, 4~20mA Channels, Voltage/Current Mode, 0~10V, 4~20mA

P/IP, Modbus TCP, EtherNet/IP, PROFINET communication 2, used for file import and export used for RS485, Modbus RTU communication 1, ABZ incremental encoder interface

0~50°C, humidity ≤95%, non-condensing

IP20 (optional IP54)

PC, APP (Android), Teaching Device

CR20A



- www.dobot-robots.com
- Sales@dobot-robots.com
- (in) linkedin.com/company/dobotrobotics
- > youtube.com/@DobotRobotics
- Floor 9, 10, 14, 24, Building 2, Chongwen Park, Nanshan Zhiyuan, Liuxian Avenue, Nanshan District, 518000, Shenzhen

