



FLEXIBLE AUTOMATED SOLUTIONS WITH COBOT

The DOBOT CR Series comprises 6 different payload capacities: 3 kg, 5 kg, 7 kg, 10 kg, 12 kg, and 16 kg, all with a repeatability of ± 0.02 mm. These robots are designed for safe human collaboration and are characterized by their user-friendliness, flexibility, and ease of deployment. This makes them well-suited for a diverse array of industries.

APPLICATION SCENARIOS

Palletizing



Loading and Unloading



Assembly



Bin Picking



Insertion



Polishing



Quality Inspection



Screwdriving



VERSATILE CONTROL OPTIONS

Dobot offers variety of control options, enabling easy management through a computer, tablet, mobile phone, or Teaching Pendant for maximum convenience and adaptability in various applications.



HAND GUIDING

This innovative method allows you to physically guide your robot through desired motions. Graphical and advanced scripting languages are available for mid-level and advanced users.

EASY WAYS TO PROGRAM



Dobot Studio

Dobot's management software is both intuitive and free, making automation accessible to all.



Blockly Programming Language

Dive into the world of robotics with the simplicity of Blockly, - fast and easy programming. Just drag and drop to complete programming.



LUA Programming

For advanced users, offer the versatility of Lua programming, providing you with more control.

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	1300 mm	1200 mm	1000 mm	
Max. Reach	795 mm	1096 mm	990 mm	1525 mm	1425 mm	1223 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°	
	J2	±360°	±360°	±360°	±360°	±360°	
	J3	±155°	±160°	±160°	±160°	±160°	
	J4	±360°	±360°	±360°	±360°	±360°	
	J5	±360°	±360°	±360°	±360°	±360°	
	J6	±360°	±360°	±360°	±360°	±360°	
Maximum Joint Speed	J1/J2	180°/s	180°/s	180°/s	120°/s	120°/s	
	J3/J4/J5/J6	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 50° C						
Power Consumption	120W	150W	150W	350W			
Materials	Aluminum alloy, ABS plastic						



COMPATIBILITY WITH WELBEE

Dobot seamlessly integrates with Welbee welding machines via Device Net industrial communication protocol, offering precise control and automation for welding tasks. This compatibility enhances efficiency and accuracy in industrial welding applications.



PROCESS

MIG/MAG

DC
DC PULSE
DC WAVE PULSE
DC LOW SPATTER

TIG

DC
AC
AC-DC

WAVING CONDITIONS

Line Triangle Spiral Trapezoid Sine



Dobot's professional welding process package enables effortless integration of both arc and laser welding, designed for compatibility with Welbee welding machines. It offers diverse welding patterns like triangle, spiral, trapezoidal, and sine, ensuring a flexible and robust solution, which makes it perfect solution for different welding tasks for metal processing.



HIGH REPEATABILITY

Dobot's cobots showcase remarkable precision with a repeatability of just 0.02 mm, surpassing the capabilities of the typical manual labor welder, ensuring consistent and high-quality results in welding tasks.



SAFER PRODUCTION LINE

SafeSkin Innovative Pre-collision by Dobot enhances collaborative robot safety. This wearable accessory offers extensive coverage, long-range detection, and rapid response, elevating human-robot teamwork for efficiency and security. Available for CR3, CR5, and CR10 Dobot models.



EASY TO DEPLOY

Dobot's plug-and-play system offers effortless deployment with an ergonomic design for simplified wiring. Installation is a breeze, taking just 20 minutes, allowing you to start reaping the benefits within an hour.

Are you ready to step into the future?
Your journey starts [HERE](#).

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