

Safe, Flexible and Self-Learning

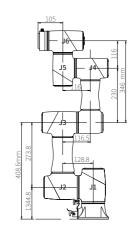
DOBOT CR collaborative robot series features 4 cobots of payloads of 3KG, 5KG, 10KG, and 16KG. These cobots are safe to work alongside, cost-effective and able to adapt to a variety of different application scenarios. CR Cobots offer flexible deployment, single-hand guidance, collision detection, trajectory reproduction and other functions, making it more suitable for man-robot collaboration scenarios.

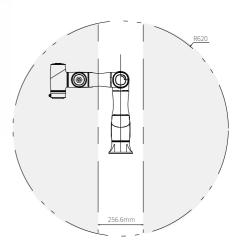
CR3

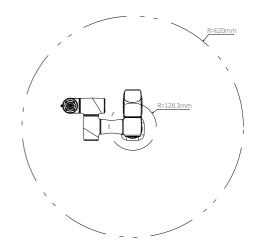


Specifications

Weight	16.5kg	
Payload	3kg	
Reach	620mm	
Maximum Speed of TCP	2m/s	
	J1 J2	±360°
		±360°
Joint Ranges	J3	±160°
	J4	±360°
	J5	±360°
	J6	±360°
	J1	180° /s
	J2	180°/s
Maximum Speed of Joints	J3	180°/s
maximum opeca or comes	J4	180°/s
	J5	180°/s
	J6	180°/s
	DI	2
I/O Interface on the	DO	2
End-Effector	Al	2
	AO	0
Communication Interface on the End-Effector	RS485	
	DI	16
	DO/DI	16
I/O Interface for the Controller	Al	2
	AO	2
	ABZ Incremental Encoder	1
Repeatability	±0.02mm	
Power Supply	100V~240V AC, 50~60Hz	
Communication	TCP/IP, Modbus, EtherCAT, WIFI	
IP Rating	IP54	
Temperature	0°C ~ 45°C	
Power Consumption	120W	
Materials	Aluminum alloy, ABS plastic	





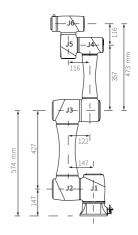


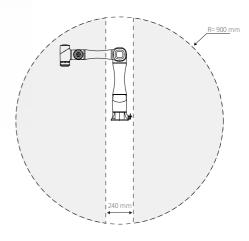
CR5

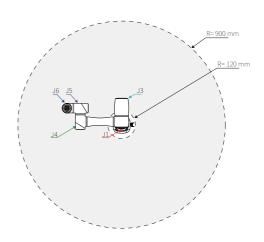


Specifications

Weight	23kg	
Payload	5kg	
Reach	900mm 3m/s	
Maximum Speed of TCP	J1	±360°
	J2	±360°
	J2 J3	±160°
Joint Ranges	J3 J4	±360°
	J4 J5	±360°
	J6	±360°
	J1	180° /s
	J2	180°/s
Maximum Speed of Joints	J3	180°/s
·	J4	180°/s
	J5	180°/s
	J6	180°/s
	DI	2
I/O Interface on the	DO	2
End-Effector	Al	2
	AO	0
Communication Interface on the End-Effector	RS485	
	DI	16
	DO/DI	16
I/O Interface for the Controller	Al	2
	AO	2
	ABZ Incremental Encoder	1
Repeatability	±0.02mm	
Power Supply	100V~240V AC, 50~60Hz	
Communication	TCP/IP, Modbus, EtherCAT, WIFI	
IP Rating	IP54	
Temperature	0°C ~ 45°C	
Power Consumption	150W	
Materials	Aluminum alloy, ABS plastic	





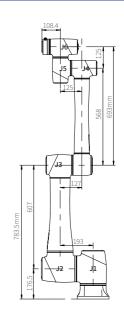


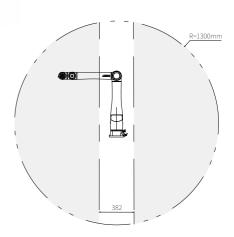
CR10

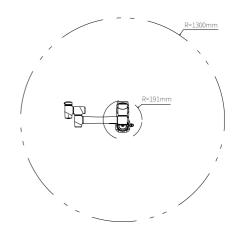


Specifications

Payload Reach 1300mm 130	Weight	38kg	
Maximum Speed of TCP 4m/s J1 ±360° J2 ±360° J3 ±160° J4 ±360° J5 ±360° J6 ±360° J1 120° /s J2 120° /s J3 180° /s J4 180° /s J5 180° /s J6 180° /s J6 180° /s J6 180° /s J7 180° /s J6 180° /s J7 180° /s J6 180° /s J7 180° /s J8 180° /s J9 180° /s J8 180° /s J9 180° /s J8 180° /s J9 180° /s J1 2 J9 1 J8 1 J8 1 J9 1 J1 1 J8	Payload Reach	10kg 1300mm	
J2			
Joint Ranges		J1	±360°
Joint Ranges		J2	±360°
J4	Inint Danges	J3	±160°
J6	Joint Ranges	J4	±360°
Maximum Speed of Joints		J5	±360°
J2		J6	±360°
Maximum Speed of Joints J3		J1	120°/s
Maximum Speed of Joints J4		J2	120° /s
J4	Maximum Spood of Joints	J3	180°/s
J6	Maximum Speed of Joints	J4	180°/s
DI 2 DO 2 DO 2 DO 2 DO DO		J5	180°/s
I/O Interface on the End-Effector		J6	180°/s
Communication Interface on the End-Effector		DI	2
AO 0 0		DO	_
Communication Interface on the End-Effector DI 16 DO/DI 16 I/O Interface for the Controller AO 2 ABZ Incremental 1 Encoder Repeatability ±0.03mm Power Supply 100V~240V AC, 50~60Hz Communication TCP/IP, Modbus, EtherCAT, WIFI IP Rating IP54 Temperature 0°C ~45°C	End-Effector	7 11	2
on the End-Effector RS485 DI 16 DO/DI 16 I/O Interface for the Controller AI 2 AO 2 ABZ Incremental Encoder 1 Repeatability ±0.03mm Power Supply 100V~240V AC, 50~60Hz Communication TCP/IP, Modbus, EtherCAT, WIFI IP Rating IP54 Temperature 0°C ~ 45°C		AO	0
DO/DI		RS485	
I/O Interface for the Controller AO ABZ Incremental 1 Encoder Repeatability ±0.03mm Power Supply 100V~240V AC, 50~60Hz Communication TCP/IP, Modbus, EtherCAT, WIFI IP Rating IP54 Temperature 0°C ~ 45°C		DI	16
Controller AO 2 ABZ Incremental 1 Encoder Repeatability ±0.03mm Power Supply 100V~240V AC, 50~60Hz Communication TCP/IP, Modbus, EtherCAT, WIFI IP Rating IP54 Temperature 0°C ~ 45°C		DO/DI	16
ABZ Incremental 1 Encoder Repeatability ±0.03mm Power Supply 100V~240V AC, 50~60Hz Communication TCP/IP, Modbus, EtherCAT, WIFI IP Rating IP54 Temperature 0°C ~45°C		Al	2
Encoder Repeatability ±0.03mm Power Supply 100V~240V AC, 50~60Hz Communication TCP/IP, Modbus, EtherCAT, WIFI IP Rating IP54 Temperature 0°C ~45°C		AO	2
Power Supply 100V~240V AC, 50~60Hz Communication TCP/IP, Modbus, EtherCAT, WIFI IP Rating IP54 Temperature 0°C ~45°C			1
Communication TCP/IP, Modbus, EtherCAT, WIFI IP Rating IP54 Temperature 0°C ~ 45°C	Repeatability	±0.03mm	
IP Rating IP54 Temperature 0°C ~ 45°C	Power Supply	100V~240V AC, 50~60Hz	
Temperature 0°C ~ 45°C	Communication		
	IP Rating	IP54	
Power Consumption 350W		0°C ~ 45°C	
•			
Materials Aluminum alloy, ABS plastic	Materials	Aluminum alloy, ABS plastic	





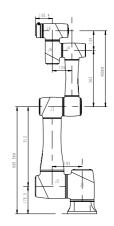


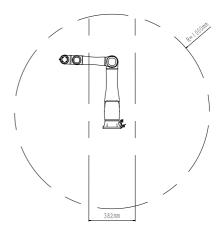
CR16

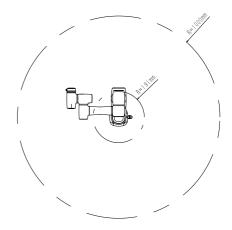


Specifications

Weight	37kg	
Payload Reach	16kg 1000mm	
Maximum Speed of TCP	3m/s	
Maximum Speed of TCI	J1	±360°
	J2	±360°
	J3	±160°
Joint Ranges	J4	±360°
	J5	±360°
	J6	±360°
	J1	120°/s
	J2	120°/s
Marrian Canada f Ininte	J3	180°/s
Maximum Speed of Joints	J4	180°/s
	J5	180°/s
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IP Rating	IP54	
Temperature	0°C ~ 45°C	
Power Consumption	350W	
Materials	Aluminum alloy, ABS plastic	







Controller



Model Number	DT-CR-CC16X-00I	
Controlled Axes	6 Axes+External Expansion Axes	
Input Power	Single Phase 110V/220V AC, 7.5A, 50/60HZ	
Output Power	48V, 20A	
Supported Motor Power (Max.)	-	
Braking Resistors	Four, 17W, 10Ω	
Supported Types of Encoders	-	
Communication Interface	EtherCAT(for External Axes), Ethernet	
I/O Interface	 · 16 Digital Outputs · 16 Digital Inputs/Outputs (Multiplexing) · 2 Analog Outputs (Voltage: 0V-10V, Current: 4mA-20mA) · 2 Analog Inputs (Voltage: 0V-10V, Current: 4mA-20mA) · 1 Incremental Encoder ABZ Input 	
Method of Teach & Playback	Hand-Held Teach Pendant/APP	
Programming Language	Script/Blockly/Graphical Programming	
Installment	Floor	
Enviroment	Temperature: 0°C ~45°C, Humidity: ≤ 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 will be steady blue when the power is on; the indicator light will be off when the power is off.	
Maintenance	Diagnostic Software Tool,Power-off Zero Save,Reserve Remote Service	

Control Software

CR Studio

CR Studio, the mobile control software for tablets, supports graphical programming and is intuitive and easy to understand even for users without much programming experience. For users with advanced experience, the platform also provides script programming. Multiple programming methods are free for you to choose from.



DOBOT SCStudio

DOBOT SCStudio, the windows control software for CR cobots, supports user-friendly interface, innovative interactive programming, and further development. It also provides a multitude of kinematic algorithms for mechanical structures, and has a built-in virtual simulation environment for quicker deployment of various applications.





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