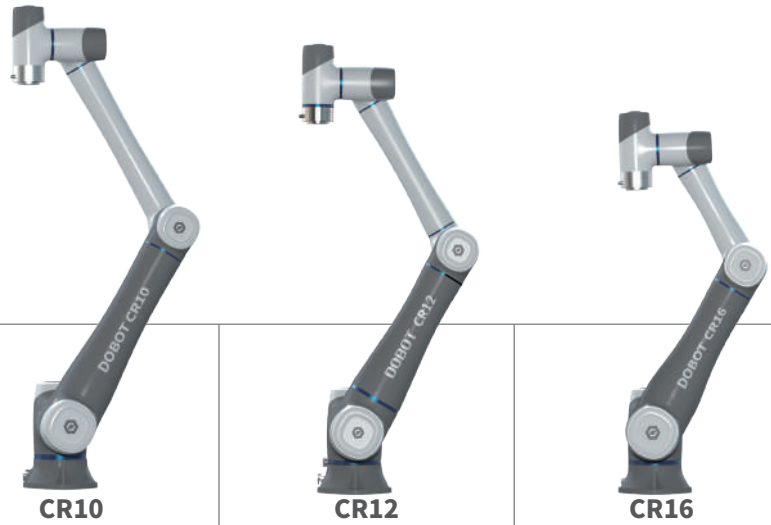


CR Collaborative Robot Series

Specifications



Product Name		CR3	CR3L	CR5	CR7
Weight		16.5kg	39.5kg	25kg	24.5kg
Rated Payload		3kg	3kg	5kg	7kg
Reach		620mm	1700mm	900mm	800mm
Max. Reach		795mm	1919mm	1096mm	990mm
Rated Voltage		DC48V	DC48V	DC48V	DC48V
Max. Speed of TCP		2m/s	4m/s	3m/s	3m/s
Joint Ranges	J1	±360°	±360°	±360°	±360°
	J2	±360°	±360°	±360°	±360°
	J3	±155°	±170°	±160°	±160°
	J4	±360°	±360°	±360°	±360°
	J5	±360°	±360°	±360°	±360°
	J6	±360°	±360°	±360°	±360°
Max. Speed of Joints	J1/J2	180° /s	120° /s	180° /s	180° /s
	J3/J4/J5/J6	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 from body to cabinet	5M			
Repeatability		±0.02mm	±0.05mm	±0.02mm	±0.02mm
Communication		TCP/IP, Modbus TCP, EtherCAT, WIFI			
IP Rating		IP54			
Temperature		0°C -45°C			
Power Consumption		120W	300W	150W	150W
Materials		Aluminum alloy, ABS plastic			



Product Name		CR10	CR12	CR16
Weight		40kg	39.5kg	40kg
Rated Payload		10kg	12kg	16kg
Reach		1300mm	1200mm	1000mm
Max. Reach		1525mm	1425mm	1223mm
Rated Voltage		DC48V	DC48V	DC48V
Max. Speed of TCP		4m/s	4m/s	3m/s
Joint Ranges	J1	±360°	±360°	±360°
	J2	±360°	±360°	±360°
	J3	±160°	±160°	±160°
	J4	±360°	±360°	±360°
	J5	±360°	±360°	±360°
	J6	±360°	±360°	±360°
Max. Speed of Joints	J1/J2	120° /s	120° /s	120° /s
	J3/J4/J5/J6	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 from body to cabinet	5M		
Repeatability		±0.03mm	±0.03mm	±0.03mm
Communication		TCP/IP, Modbus TCP, EtherCAT, WIFI		
IP Rating		IP54		
Temperature		0°C -45°C		
Power Consumption		350W	350W	350W
Materials		Aluminum alloy, ABS plastic		

Controller Specifications



CC16X

Model	
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
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
Teaching & Playback Method	Hand-Held Teaching Pendant/APP
Programming Language	Script
	Graphical Programming (Blockly)
Installment	Floor
Environment	Temperatures: 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 remain red when the power is on and be off when the power is off.
Maintenance	Diagnostic Software Tool
	Power-off Zero Save
	Reserve Remote Service