



Dobot CR

The Dobot CR series of robots are modern solutions for industry and education, providing advanced automation capabilities and robotics applications. The CR series consists of various models, offering different payload capacities ranging from 3 to 16 kilograms, to address diverse user needs. They are characterized by high precision, speed, and user-friendliness – making them suitable for both industrial applications and educational and scientific research purposes. Within the CR series, robots ar...

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	785 mm	1096 mm	990 mm	1525 mm	1425 mm	1223 mm
Max. Speed (TCP)	2 m/s	3 m/s	3 m/s	4 m/s	4 m/s	3 m/s
Repeatability	± 0.02 mm			± 0.03 mm		
Power Consumption	120 W	150 W	150 W	350 W		
Safe Skin Version (CRS)	Yes	Yes	—	Yes	—	—
Controller & Shared Specifications						
Rated Voltage	48V DC					
Communication Interface	RS485					
Digital I/O (DI/DO)	16 / 16					
Analog I/O (AI/AO)	2 / 2					
ABZ Incremental Encoder	1					
Connectivity	TCP/IP, Modbus TCP, WiFi					
IP Rating / Temperature	IP54 / 0°C – 50°C					

Model	CR3	CR5	CR7	CR10	CR12	CR16
Cable Length to Controller	5 m					