

Product Specifications



Product Name	CR3A	CR5A	CR7A	CR10A	CR12A	CR16A	CR20A	
Weight	16.5kg	25 kg	24.5 kg	40 kg	39.5 kg	40 kg	73 kg	
Max. Payload	3 kg	5 kg	7 kg	10 kg	12 kg	16 kg	20 kg ^{*1}	
Working Radius	620 mm	900 mm	800 mm	1300 mm	1200 mm	1000 mm	1700 mm	
Range of Motion (Joints)	J3: ±155° Other Joints ±360°	J3: ±160° Other Joints ±360°	J3: ±160° Other Joints ±360°	J3: ±160° Other Joints ±360°	J3: ±160° 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
Max 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 Channels	2 Channels	2 Channels	2 Channels	2 Channels	2 Channels	4 Channels
End I/O	DO	2 Channels	2 Channels	2 Channels	2 Channels	2 Channels	2 Channels	4 Channels
	AI	2 Channels (Shared with RS485)	2 Channels (Shared with RS485)	2 Channels (Shared with RS485)	2 Channels (Shared with RS485)	2 Channels (Shared with RS485)	2 Channels (Shared with RS485)	4 Channels (Shared with RS485)
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	IP54	IP54	IP54	IP54	IP54	IP54	
Temperature Range	0~50°C	0~50°C	0~50°C	0~50°C	0~50°C	0~50°C	0~50°C	
Power Consumption	120W	150W	150W	350W	350W	350W	500W	
Cable Length (Robot-to-Cabinet)	5 m	5 m	5 m	5 m	5 m	5 m	6 m	
Full SafeSkin Model (Optional)	CR3AS*3	CR5AS*3	CR7AS*2	CR10AS*3	CR12AS*2	CR16AS*2	-	

*1 : For palletizing applications, the CR20A supports a maximum payload of up to 25 kg. For specific details, please consult DOBOT Robotics technical support.
 *2 : Equipped with 3 SafeSkin modules, located on J4, J5, and J6 axes.
 *3 : Equipped with 4 SafeSkin modules, located on the forearm, J4, J5, and J6 axes.

CRA-IP68 Series



Product Name	CR5AP	CR10AP	CR20AP	
Weight	25 kg	40 kg	73 kg	
Max. Payload	5 kg	10 kg	20 kg	
Working Radius	900 mm	1300 mm	1700 mm	
Range of Motion (Joints)	J3: ±160° Other Joints ±360°	J3: ±160° Other Joints ±360°	J3: ±165° Other Joints ±360°	
	J1/J2	180°/s	150°/s	120°/s
Max Joint Speed	J3	180°/s	180°/s	150°/s
	J4/J5/J6	223°/s	223°/s	180°/s
	DI	2 Channels	2 Channels	4 Channels
End I/O	DO	2 Channels	2 Channels	4 Channels
	AI	2 Channels (Shared with RS485)	2 Channels (Shared with RS485)	4 Channels (Shared with RS485)
Repeatability	±0.02 mm	±0.03 mm	±0.05 mm	
IP Rating	IP68	IP68	IP68	
Temperature Range	0~50°C	0~50°C	0~50°C	
Power Consumption	150W	350W	500W	
Cable Length (Robot-to-Cabinet)	5 m	5 m	6 m	

Product Specifications



Product Name	CR5AF	CR10AF	CR20AF	
Weight	25.5 kg	40.5 kg	74 kg	
Max. Payload	5 kg	10 kg	20 kg	
Working Radius	900 mm	1300 mm	1700 mm	
Range of Motion (Joints)	J3: ±160° Other Joints ±360°	J3: ±160° Other Joints ±360°	J3: ±165° Other Joints ±360°	
Max Joint Speed	J1/J2	180°/s	150°/s	
	J3	180°/s	150°/s	
	J4/J5/J6	223°/s	223°/s	
		120°/s	180°/s	
Force Sensor	Range	Force(Fx/Fy/Fz): 150N Torque(Mx/My/Mz): 15Nm	Force(Fx/Fy/Fz): 300N Torque(Mx/My/Mz): 30Nm	Force(Fx/Fy/Fz): 500N Torque(Mx/My/Mz): 50Nm
	Overload	500% F.S.	500% F.S.	500% F.S.
	Accuracy	1% F.S.	1% F.S.	1% F.S.
	Precision	0.5% F.S.	0.5% F.S.	0.5% F.S.
End I/O	DI	2 Channels	2 Channels	4 Channels
	DO	2 Channels	2 Channels	4 Channels
	AI	2 Channels (Shared with RS485)	2 Channels (Shared with RS485)	4 Channels (Shared with RS485)
Repeatability	±0.02 mm	±0.03 mm	±0.05 mm	
IP Rating	IP54	IP54	IP54	
Temperature Range	0~50°C	0~50°C	0~50°C	
Power Consumption	150W	350W	500W	
Installation Method		正装		
Cable Length (Robot-to-Cabinet)	5 m	5 m	6 m	
Material(s)		Aluminum Alloy & ABS Plastic		



Robot Control Cabinet

Model	CC262		CC263	
	AC Version	DC Version	AC Version	DC Version
Dimensions	345 mm*345 mm*145 mm	345 mm*345 mm*145 mm	400 mm*400 mm*175 mm	400 mm*320 mm*175 mm
Weight	9.5 kg	8.5 kg	15.5 kg	11.5 kg
Input Power	100~240V, 47~63Hz	30~60V	100~240V, 47~63Hz	40~60V
I/O Power	24V, Max 3A, per channel Max 0.5A			
I/O Interface	DI	DI: 24 channels (NPN or PNP)		
	DO	DO: 24 channels (NPN or PNP)		
	AI	AI: 2 channels, voltage/current mode (0~10V, 4~20mA)		
	AO	AO: 2 channels, voltage/current mode (0~10V, 4~20mA)		
Communication Interfaces	48S Interface	2 ports for TCP/IP, Modbus TCP, EtherNet/IP, PROFINET		
	USB	2 ports for external file transfer		
	RS485	1 port for RS485, Modbus RTU communication		
	Encoder	1 ABZ incremental encoder interface		
Protection Rating	IP20 (optional IP54)			
Teaching Methods	PC, APP (Android), Teach Pendant			
Compatible Models	CR3A~CR16A		CR20A	

DOBOT Collaborative Robot Teach Pendant

Model	DT-TP10-3PE-N
Dimensions (L×W×H)	290*180*41 (mm)
Resolution	1920*1200@60Hz
Screen Size	10.1 寸
IP Rating	IP54
Weight	1.02 kg
Standard Cable Length	4.5 m
Material(s)	PC + ABS

