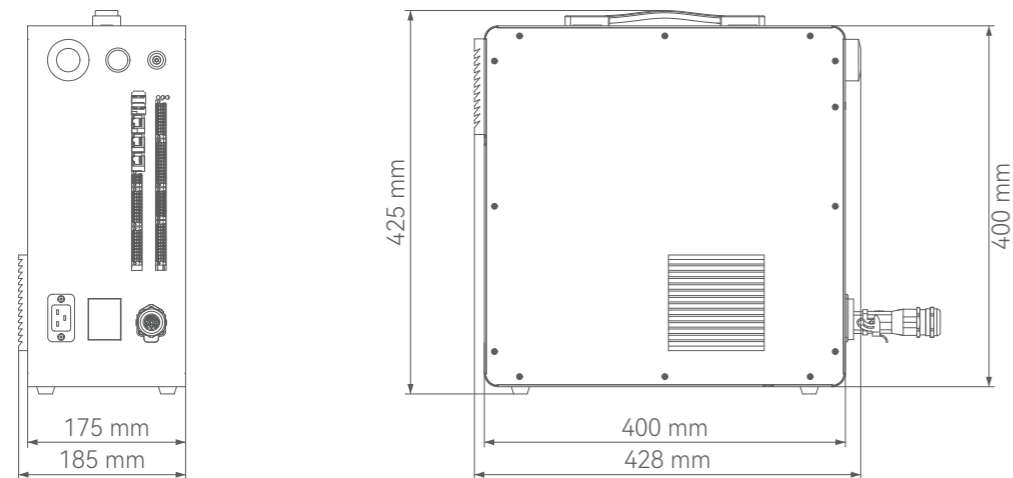
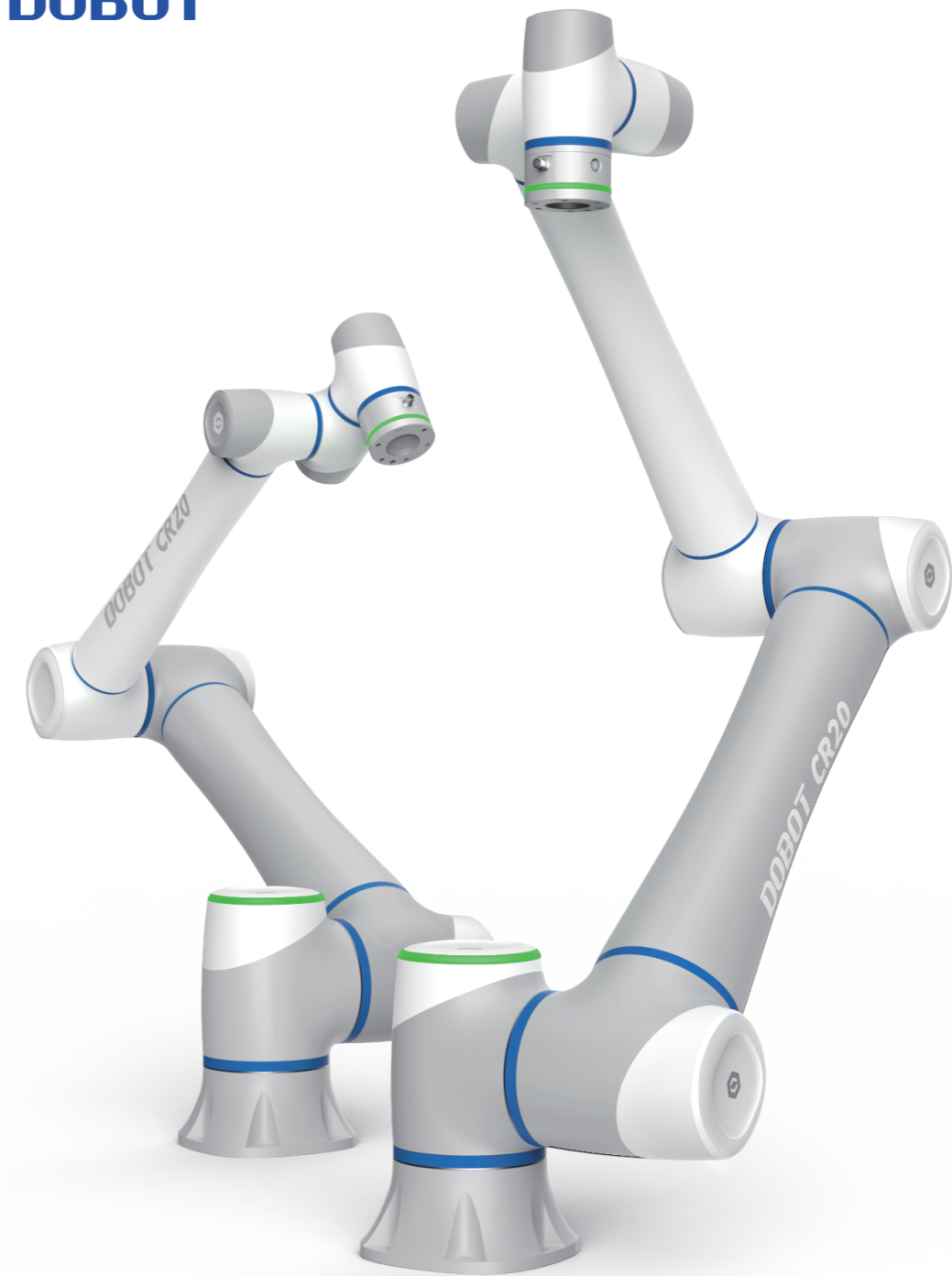


Product Specifications



Dimensions	400 mm x 400 mm x 175 mm	
Weight	15 kg	
Power	100V ~ 240V AC	
I/O Power	24V, Max 3A, Max 0.5A for each channel	
I/O Ports	DI/DO	24 channels (NPN or PNP)
	AI/AO	2 channels (voltage or current mode)
	SI/SO	10 channels (5 sets of safety features configurable)
Communication Interface	Ethernet	2, for TCP/IP, Modbus TCP, Profinet, Ethernet/ IP Communication
	EtherCAT	Reserved to control robot's exterior axes
	USB	2
	RS485	1, for Modbus RTU communication
Working Environment	Temperature	0° to 50° C
	Humidity	0% to 95% noncondensing
Noise	≤ 60 dB	
Remote Power On/Off	Supported	
IP Rating	Default: IP20. Optional: IP54.	
Cooling Mode	Fan cooling	
Teaching Devices	PC, mobile app (Android & iOS) and teach pendant.	



DOBOT CR20A

Performance Unleashed With High Payload And Wide Radius

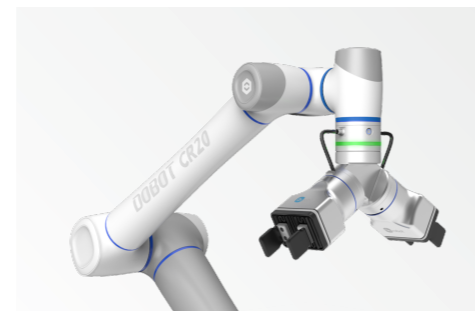
DOBOT CR20A

The DOBOT CR20A is a new generation collaborative robot specially designed for high-load applications. Building upon the safety, efficiency, flexibility, and ease of use of the CR series, the CR20A breaks through the payload limit to 20 kg, opening up a wider range of applications for collaborative robots. With a 1,700 mm working radius, the CR20A can meet the demands of heavy-duty picking, packing, palletizing and welding in the automotive, home appliances, logistics and metal processing industries.

Key Features

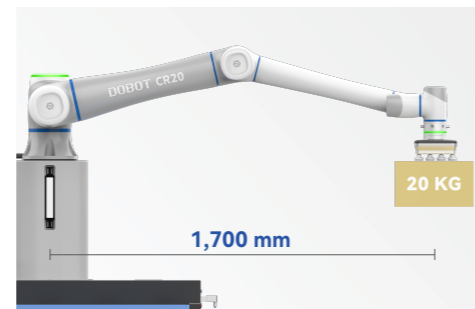
User-friendly Design for Faster Deployment

The CR20A adopts an industry-first dual-channel end effector design, which can directly connect to multiple end tools. It also features a visual status indicator at the base for intuitive recognition of operating status.



More Possibilities with High Payload and Wide Radius

The CR20A has a working radius of 1,700 mm and a maximum payload of 20 kg. With advanced motion control algorithm, the CR20A operates more stably, with residual vibrations reduced by 50% during high-speed emergency stops.



24 Interface Ports for Greater Flexibility

The CR20A supports Profinet and Ethernet/IP communication protocols and connects seamlessly with PLC. It has 24 digital IO ports with industry leading support for PNP and NPN switching to expand applications with ease.

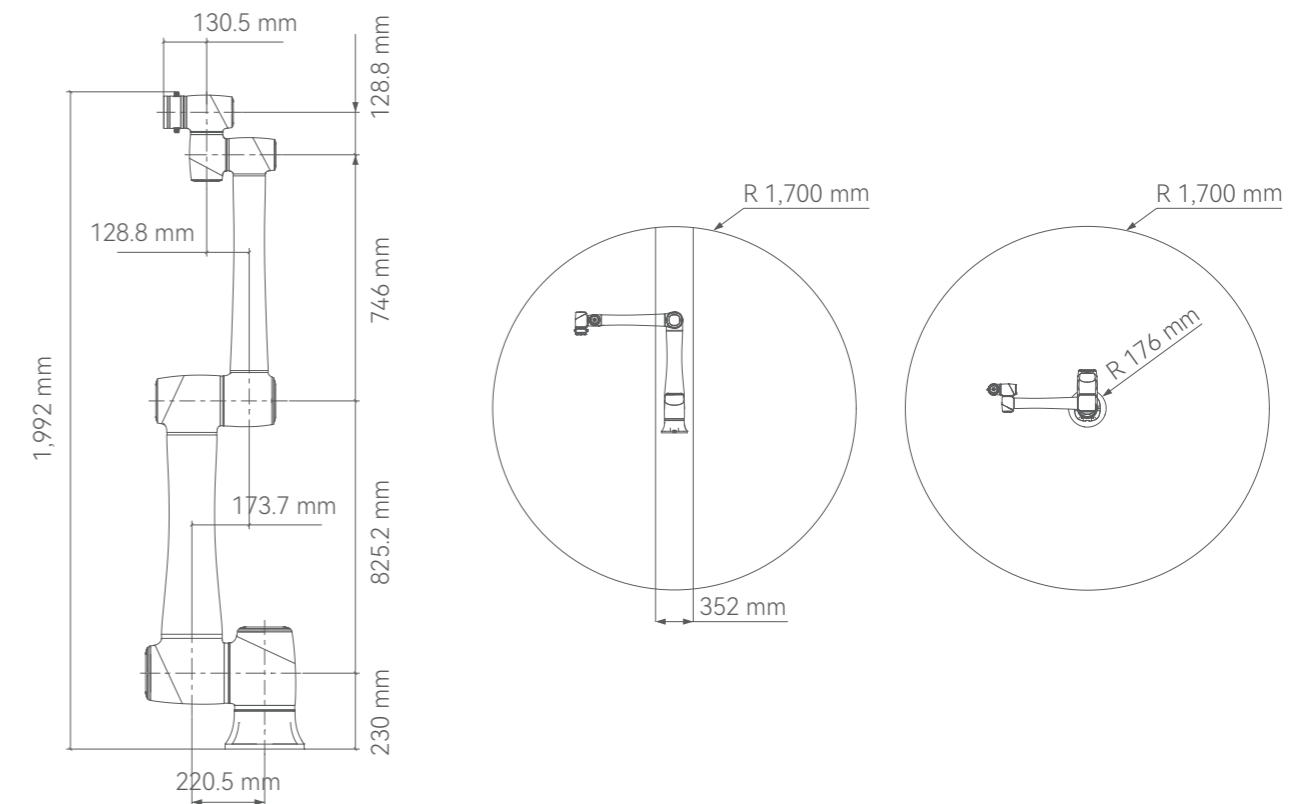


High Protection Level for Safer Collaboration

The robot body and control box both achieve a high protection level of IP54. When overloaded, the robot will automatically sound an alarm. The CR20A also features an innovative electromagnetic brake protection, which reduces the end tool drop distance at power failure.



Product Specifications



Model	CR20A	
Weight	70 kg	
Payload	20 kg	
Working Radius	1,700 mm	
Maximum Speed of TCP	2,000 mm/s	
Maximum Joint Speed	J1 to J2	120° /s
	J3	150° /s
	J4 to J6	180° /s
Range of Motion	J1/J2/J4/J5/J6	±360°
	J3	±165°
I/O Ports	Power	24V, Rated 2A, Max 3A
	Ports	2 connectors, RS485/AI, 2 x DO, 2 x DI
Repeatability	±0.1 mm	
IP Rating	IP54	
Noise	≤ 70 dB	
Working Environment	0° to 50° C	
Installation Orientation	Upright	
Cable Length to Controller	6 m	
Materials	Carbon steel, aluminum alloy, ABS plastic	