



Global Leading Provider of Collaborative & Industrial Robot Arm Solutions

ABOUT DOBOT



DOBOT is the world leading provider of smart robotic arm solutions. Our solution seamlessly integrates AI-powered lightweight robotic arms and proprietary software suite, effectively helping industrial clients navigate around rising wages, lack of qualified laborers and other bottlenecks preventing companies to scale. By replacing traditional manufacturing processes with advanced human-machine collaboration models, DOBOT meets the demands of flexible production, plays a critical role in elevating China manufacturing industry and will be the standard of tomorrow's smart production processe.

In addition, DOBOT is proud to be spearheading robotic arm awareness in education and research. We have partnered with globally renowned K-12 and higher academic institutions, providing DOBOT robot solutions to over 1 million educators and researchers.

DOBOT is customer centric and values independent innovation. In the past 5 years since founding, we insist on developing our own solution on key technologies. Our team is always one step ahead, creating new product categories and defining new smart production standards to support the manufacturing industry.

DOBOT CR Collaborative Robot Series

Safe, Flexible and Self-Learning

A 163

Easy to Use

- Fi connection

- Multi protection with force sensing, obstacle avoidance & camera entry detection

Flexible & Fast Deployment

- application
- Wide compatibility with mainstream end-effectors and accessories
- Fast changeovers perfect for customized/flexible/lean manufacturing

Economical & Durable

- Long-lasting durability with 32,000 hours of service life, built-in energy feedback & hectowatt-level power consumption



DOBOT CR Collaborative Robot Series features 4 cobots with payloads of 3kg, 5kg, 10kg, and 16kg. These cobots are safe to work alongside, cost-effective and adaptable to a variety of application scenarios. CR Cobots offer flexible deployment, single-hand guidance, collision monitoring, trajectory reproduction and other functions, making it even more suitable for man-robot collaboration scenarios.

- Easy programming using visual, drag & drop and block-based programming language
- Teachable by demonstration or single-hand guidance
- Real-time control on your mobile phone, iPad, or tablet through Wi-

Inherently Safe, Collision-Free Collaborative

- Real-time obstacle avoidance with every-5ms dynamic monitoring, 10cm-proximity pre-touch sensing & online route planning combined to produce the best trajectory to avoid obstacles
- Fast setup requiring only 20 minutes to set up, 1 hour to put into

• Limited space with no security fence required



Industries

Food & Chemical Furniture & Appliances Metal Processing Auto Components

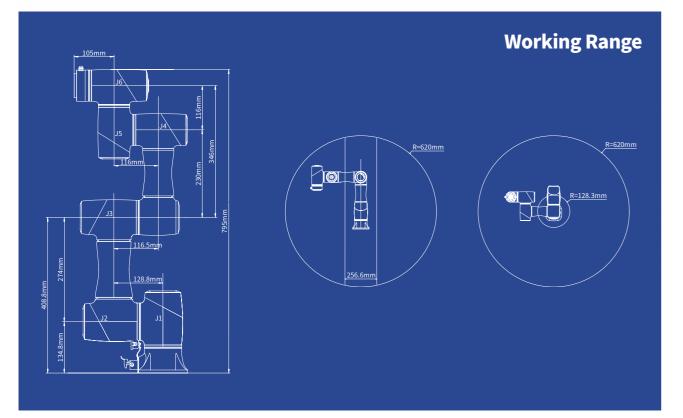
Applications

Product Line Tracking in 3C industry

Dynamic Screwdriving

Assembly

Feeding



DOBOTCH3

0



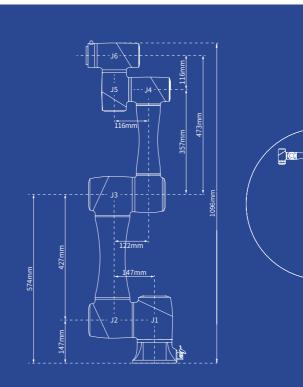


Industries

- 3C Automation
- Food Packaging
- Furniture & Appliances
- Metal Processing
- Auto Components

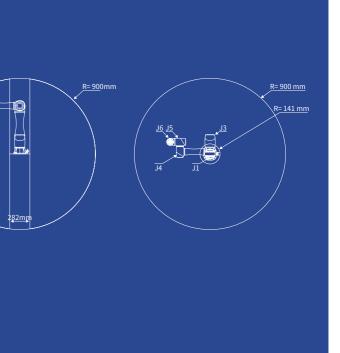
Applications

- Product Line Tracking in 3C industry
- Dynamic Screwdriving
- Assembly
- Material Processing (Polishing & Sanding)





Working Range





Industries

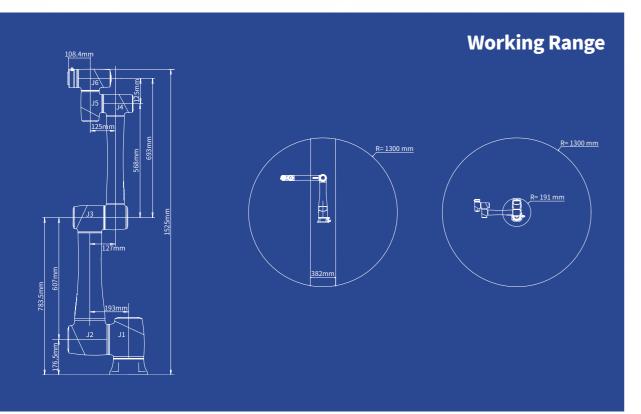
Food & Chemical Furniture & Appliances Metal Processing

Auto Components

Applications

Machine Tool Loading/Unloading Heavy Duty Pick and Place Depalletizing & Palletizing

Material Processing (Polishing & Sanding)



0

DOBOT CRITO

0

CR16

Industries

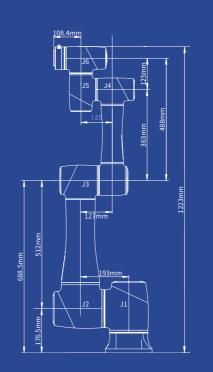
Medical & Chemical Furniture & Appliances

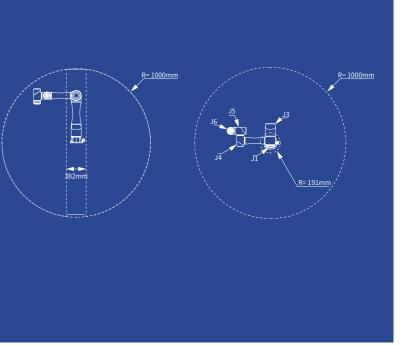
Metal Processing

Auto Manufacturing

Applications

Machine Tool Loading/Unloading Heavy Duty Pick and Place Depalletizing & Palletizing Material Processing (Polishing & Sanding)







Working Range

CR Collaborative Robot Series

Speci		าร	54		54
Model		CR3	O CR5	CR10	CR16
Weight		16.5kg	23kg	38kg	37kg
Rated Payload		3kg	5kg	10kg	16kg
Reach		620mm	900mm	1300mm	1000mm
Max. Reach		795mm	1096mm	1525mm	1223mm
Rated Voltage		DC48V	DC48V	DC48V	DC48V
Max. Speed of TCP		2m/s	3m/s	4m/s	3m/s
Joint Ranges	J1	±360°	±360°	±360°	±360°
	J2	±360°	±360°	±360°	±360°
	J3	±155°	±160°	±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	180° /s	120°/s	120°/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			
Repeatability		±0.02mm	±0.02mm	±0.03mm	±0.03mm
Communication		TCP/IP, Modbus, EtherCAT, WIFI			
IP Rating		IP54			
Temperature		0°C~ 45°C			
Power Consumption		120W	150W	350W	350W
Materials		Aluminum alloy, ABS plastic			

Model	CC16X			
Size	360mm(Length)*160mm(Width)* 402.4mm(Height)			
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 Types of Encoders	-			
Communication Interface	EtherCAT (for External Axes), Ethernet			
	16 Digital Outputs			
	16 Digital Inputs/Outputs (Multiplexing)			
I/O Interface	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			
Durania	Script			
Programming Language	Graphical Programming (Blockly)			
Installment	Floor			
Environment	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 red when the power is on; the indicator light will be off when the power is off.			
	Diagnostic Software Tool			
Maintenance	Power-off Zero Save			
	Reserve Remote Service			

