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DUCO Mobile Cobot



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Strive to be the Best Partner for Smarter Future

DUCO Mobile Cobot

Customized Wheel



The customized wheel train for DUCO Mobile Cobot comes more stable and reliable.

360° Safety Protection



Real-time 360° security protection achieves man-machine security cooperation

Ecological Technical Support



Efficient docking of various tools and more convenient for grasping

Integrated Teach Pendant



Realize visual linkage debugging of mobile platform and collaboration arm on one screen, fast deployment.

Charging Variety



Contact/wireless/automatic charging mode, meeting the requirements of short-time, real-time and 7 * 24 all-day operation.

Integrated & Open Controller



Open programming environment+multiple communication and data interfaces+independent detection can meet more customization requirements.

B-Series

T-Series

L-Series



Product Introduction

DUCO Mobile Cobot are integrated with independently developed mobile platforms and Cobot, with independently developed vision and fixture and other execution units to realize functional applications such as material handling, assembly, detection and precision processing. DUCO Mobile Cobot have comprehensive security protection, multiple interaction and communication modes and can well interface with customer systems. It can also provide customized solutions, customized scheduling system, on-site guidance and perfect after-sales service to ensure customer experience. As a standardized product, DUCO Mobile Cobot have consistency, reliability and stability that non-standard equipment does not have.

Industry



Automobile Industry



3C Industry



Electric Industry



Medical Industry



Pan Industry



Consumer Goods Industry

Technical Parameters



HC-X2-B



HC-X3-B

Dimensions <small>(L*W*H, excluding cooperation arm and side obstacle avoidance laser)</small>	
Comprehensive Accuracy ⁽¹⁾	
Total Weight	
Navigation Mode	
Cobot Payload	
Platform Load	
Mobile Capability	Driving Form
	Turning Radius
	Crab Speed (Any Angle)
	Width of Walking Passage
	Movement Speed
	Turning Speed
	Obstacle Clearance Height
	Trench Width
	Ground Clearance
	Gradeability
Parking Accuracy	
Battery Performance ⁽²⁾	Battery
	Capacity
	Running Time
	Charging Time
Charging Mode	
Safety Device	
Interface	Hardware Support
	Communication Protocol
Button	
Use Environment	Ambient Temperature
	Ambient Humidity
	Runtime Environment
	Cleanliness

1250mm×600mm×700mm		950mm×600mm×700mm	
±0. 3mm			
About 320/330/361/350/360KG (With Cobot GCR5/10/16/20/30)		About 270/280/300/KG (With Cobot GCR5/10/16/20)	
SLAM & QR CODE			
5kg/10kg/16kg/20kg/30kg		5kg/10kg/16kg/20kg	
670kg Max		350kg Max	
Two-Wheel Differentail		Two-Wheel Differentail	
500mm Min		500mm Min	
/		/	
900mm Min		900mm Min	
≤1m/s		≤1m/s	
≤0.5m/s		≤0.5m/s	
10mm		10mm	
30mm		25mm	
30mm		30mm	
< 5%		< 5%	
±5mm Position Accuracy, ±1°Angle Accuracy			
DC51.2V LFP	DC51.2V LFP (Option)	DC51.2V LFP	DC51.2V LFP (Option)
52Ah	80Ah	42Ah	80Ah
About 5.5H	About 8H	About 5.5H	About 8H
≤1.8h	≤2h	≤1.5h	≤2h
Contact Charging / Wireless Charging / Battery Change (Both Manual and Automatic Support)			
Collision Detection/Safety Contact/Obstacle Avoidance Laser/Emergency Stop,etc			
Hardware Support CAN bus, RS-485, RS-232, RJ45, USB			
Communication Protocol Support CANOPEN, Modbus, etc.			
Start Button/Pause Button/Reset Button/Teach Button			
Ambient Temperature:-10℃~45℃			
Ambient Humidity:5%~95 % (No Condensation)			
Indoor Use Only			
None/ Class6(Grade 1000) / Class5 (Grade 100)			



HC-X4-B



HC-X6-B



HC-X2-T



HC-X2-L

800mm×600mm×700mm		1250mm×700mm×800mm		1250mm×600mm×1070mm		1250mm×600mm×700mm	
±0. 3mm							
About 247/260KG (With Cobot GCR5/10)		About 392/405/436/435KG (With Cobot GCR5/10/20/30)		About 330/361/350/360KG (With Cobot GCR10/16/20/30)		About 320/330/361/350/360KG (With Cobot GCR5/10/16/20/30)	
SLAM & QR CODE							
5kg/10kg		5kg/10kg/20kg/30kg		10kg/16kg/20kg/30kg		5kg/10kg/16kg/20kg/30kg	
120kg Max		470kg Max		100kg Max		670kg Max	
Two-Wheel Differentail		Mecanum Wheel		Two-Wheel Differentail		Two-Wheel Differentail	
500mm Min		/		500mm Min		500mm Min	
/		≤0.5m/s		/		/	
900mm Min		1000mm Min		900mm Min		900mm Min	
≤0.8m/s		≤0.8m/s		≤1m/s		≤1m/s	
≤0.5m/s		≤0.5m/s		≤0.5m/s		≤0.5m/s	
10mm		10mm		10mm		10mm	
30mm		80mm		30mm		30mm	
30mm		45mm		30mm		30mm	
<5%		<5%		<5%		<5%	
±5mm Position Accuracy, ±1°Angle Accuracy							
DC51.2V LFP	DC51.2V LFP (Option)	DC51.2V LFP	DC51.2V LFP (Option)	DC51.2V LFP	DC51.2V LFP (Option)	DC51.2V LFP	
28Ah	80Ah	42Ah	80Ah	52Ah	80Ah	52Ah	
About 5.5H	About 8H	About 5.5H	About 8H	About 5.5H	About 8H	About 5.5H	
≤1.5h	≤2h	≤1.5h	≤2h	≤1.8h	≤2h	≤1.8h	
Contact Charging / Wireless Charging / Battery Change (Both Manual and Automatic Support)						Contact Charging (A/M)	
Collision Detection/Safety Contact/Obstacle Avoidance Laser/Emergency Stop,etc							
Hardware Support CAN bus, RS-485, RS-232, RJ45, USB							
Communication Protocol Support CANOPEN, Modbus, etc.							
Start Button/Pause Button/Reset Button/Teach Button							
Ambient Temperature:-10℃~45℃							
Ambient Humidity:5%~95 % (No Condensation)							
Indoor Use Only							
None/ Class6(Grade1000) / Class5 (Grade 100)							

(1) The comprehensive accuracy depends on the accuracy of the end positioning device, the parking accuracy of the mobile platform, and the accuracy of the collaborative arm end.

(2) The operating time depends on requirements such as operating conditions and cycle time.

360° Safety Protection

Safe Human-Machine Collaboration for a Better Future



Collision Detection Protection



- Well-designed security hierarchy
- Cobot comply with ISO10218-1, ISO15066 standards

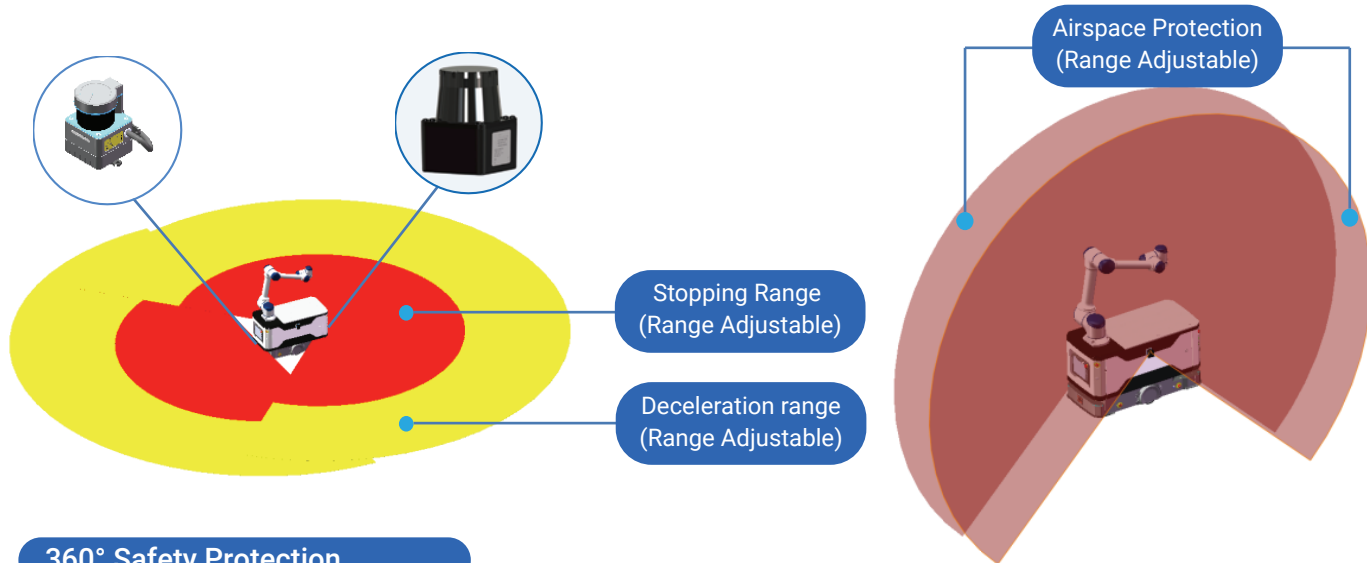
Emergency Stop Guards on All Sides

- Suitable height. Ergonomic.
- Rapid demonstration and teaching while ensuring the safety of workers and materials.

Software and Hardware Protection

- Lithium iron phosphate batteries (single-cell compliant with UN38.3, UL2580 and CB62619)
Compliance with electromagnetic compatibility, current loop control, etc.

Safety Protection



360° Safety Protection

- Ground protection + airspace protection (optional)

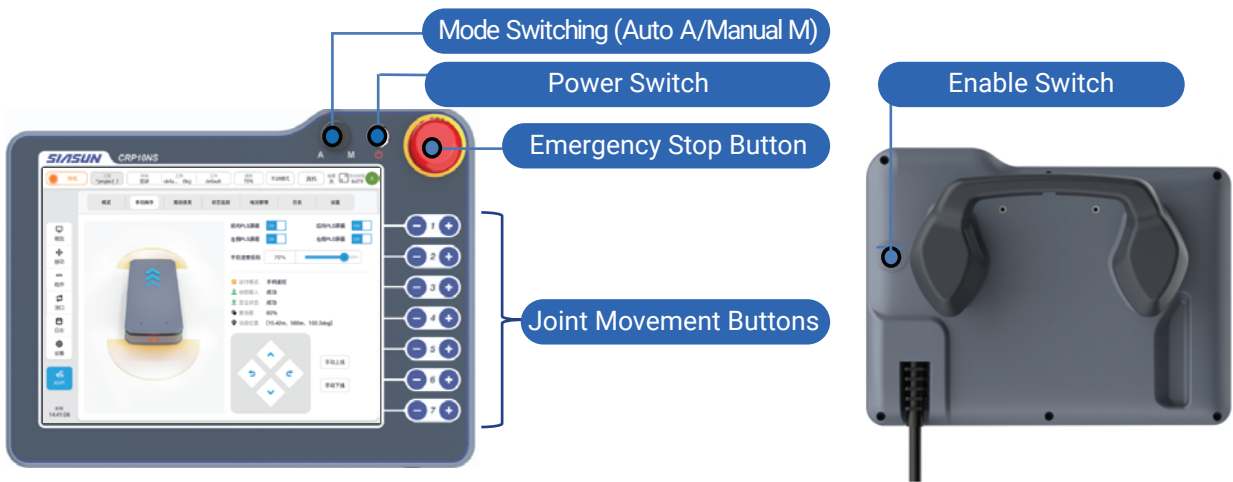
Inductive Deceleration

- Speed-down by sensor for efficiency and safety

Adjustable Protection Zone

- Protective area can be tailored (maximum protection distance: 25 metres in front, 10 metres behind)

Integrated Teach Pendant

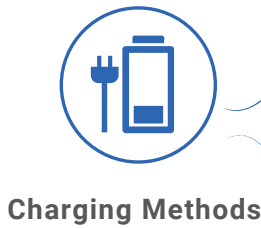


Integrated:
Collaborative Robotics & Mobile Robotics Platforms at the Touch of a Button.

Interfaces can be Adapted:
Extended Devices can Also be Operated.

Easy to get Started:
Real-time Status, at a Glance, Debugging Worry-free.

Charging Variety



Charging Methods

Contact Charging

- Quality-price Ratio
- Suitable for Regular Scenarios

Wireless Charging

- Contactless, Frictionless Dust Generation
- Higher Cleanliness
- Recharging while working

Battery Change

- Automatic Battery Changer: High Efficiency and Return on Investment when Multiple Units are in place
- Enables 24-Hour Continuous Operation, Reducing the Number of Acquisitions

