



# ALWAYS EASIER THAN BEFORE

## Elite Collaborative Robot

Certificated by

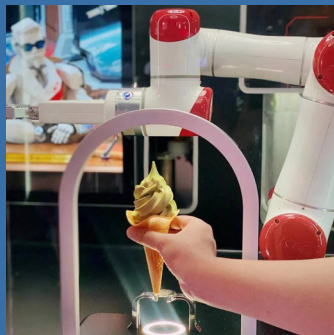


# CHANGE COMPLEX INTO SIMPLE

## ELITE ROBOTS

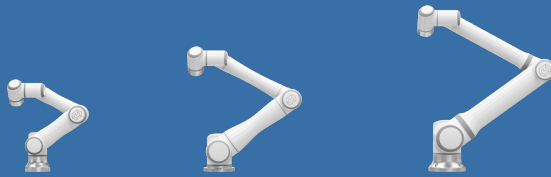
### Excels at Streamlining Complex Processes

Suitable for many fields, including Electronics, Automotive, Metal processing, Mechanical, Composite Mobile Robot (AGV/AMR), Chemical, Household, Commercial, Electric power and Medical treatment.



Intended applications include material handling, locking screws, testing, coating, material removal, handling, palletizing and other production tasks.

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Model	Parameters	EC63/EC63M	EC66/EC66M	EC612/EC612M
Robot arm	Net Weight	13kg	17.5kg	33.5kg
	Max. Payload	3kg	6kg	12kg
	Working Radius	624mm	914mm	1304mm
	Maximum Speed	2.0m/s	2.8m/s	3.2m/s
	Power Consumption	150W (Normal Working Conditions)	250W (Normal Working Conditions)	500W (Normal Working Conditions)
	Number of Axis	6	6	6
	Range of Motion (Axis 1)	±360°	±360°	±360°
	Range of Motion (Axis 2)	±360°	±360°	±360°
	Range of Motion (Axis 3)	±158°	±165°	±168°
	Range of Motion (Axis 4)	±360°	±360°	±360°
	Range of Motion (Axis 5)	±360°	±360°	±360°
	Range of Motion (Axis 6)	±360°	±360°	±360°
	Tool Side IO	2 x DI, 2 x DO, 1 x 24V, 1 x AI, 1 x AO, 1 x RS485		
	Robot Arm Power Supply	48V		
	Length of the Cable	5.5m		
	Installation Method	Any Angle		
	Certification	CE UL CR KCs RoHS		
	Repeatability Precision	+/-0.03mm		
	Body Material	Aluminum Alloy		
	Operating Temperature	0°C to 50°C		
Working Environment Humidity	5% ~ 95%(No Condensation)			
IP Protection Class	IP54			
Controller	Communication Interface	16 x DI, 20 x DO, 2 x AI, 4 x AO, Ethernet TCP/IP, UDP, ModbusTCP, RS485/RS232, ModbusRTU, Profinet (Slave), Ethernet IP (Slave) (Optional), CCLink (Slave) (Optional)		
	Controller Cabinet Size	ERB1K6-220/110: 478*380*120mm		ERB3K2-220/110: 478*380*138mm
		ERB1K0-48/24: 478*380*120mm		ERB2K0-48/24: 478*380*138mm
		ERB2E1K6-220/110: 505*448*245mm		ERB2E2K0-220/110: 505*448*245mm
		ERB2E1K0-48/24: 505*448*245mm		ERB2E2K0-48/24: 505*448*245mm
	IP Protection Class	ERB1K6-220/110, ERB1K0-48/24: IP20		ERB3K2-220/110, ERB2K0-48/24: IP20
		ERB2E1K6-220/110, ERB2E1K0-48/24: IP44		ERB2E2K0-220/110, ERB2E2K0-48/24: IP44
	Control Cabinet Weight	15Kg		17Kg
	Control Cabinet Power Supply	220/110VAC(M:19-72VDC)		
	Working Temperature	0°C to 50°C		
Working Environment Humidity	5% ~ 95%(No Condensation)			
Teach Pendant	IP Protection Class	IP65		
	Working Temperature	0°C to 50°C		
	Working Environment Humidity	5% ~ 95%(No Condensation)		
	Net Weight	1.8Kg		
	Resolution	1280 * 800		
	Size	290 x 225 x 118mm		
	Length of the Cable	5.5m		

\* M Models are 48/24V DC Powered Models



# Enabling flexible production with progressive automation

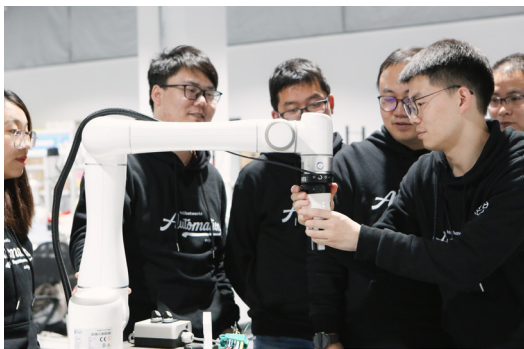
We established the 8,700 sqm large Suzhou Operation Center in 2018 and the 2,400 sqm Shanghai Zhangjiang Research and Innovation Center in December 2020. The entire founding team studied at the elite Beihang Robot Institute under acclaimed professor Wang Tianmiao, so it's safe to say that technology and research are in the DNA of ELITE ROBOTS.

Every component of ELITE ROBOTS cobots is a result of independent R&D efforts. This includes everything from the underlying operating system to the embedded hardware and software, the process package, the top-of-the-line computing power, and even the joint module technology. In fact, except for the reduction box, every part has been developed in-house.

ELITE ROBOTS is currently selling three models of the EC series with different payload capacities (3kg / 6kg / 12kg). The EC series has garnered a good reputation in the industry thanks to its stable operation, smooth drag, flawless functionality, and high cost-performance ratio. Furthermore, leading collaborative robot projects have already integrated the EC series in multiple industries, including auto parts, 3C electronics, metal processing, home appliances, electric power, and new retail.

ELITE ROBOTS cobots have several competitive advantages: high cost-performance, vertically integrated design and testing to ensure product stability, and low self-weight-to-load ratio. We also have a world-class pre-sales and after-sales team with rich experience in robot usage and a deep understanding of the application scene.





In addition, ELITE ROBOTS already has more than 5,000 collaborative robots working at customer sites. We've helped factories transform the single workstation through "machine replacement" and "human-machine collaboration," effectively allowing them to reduce staff through increased efficiency and automation.

As of 2021, ELITE ROBOTS has over 180 employees and operations in over 20 countries worldwide, including Europe, Southeast Asia, Japan, South Korea, and North America.

In 2022, ELITE ROBOTS will launch a platform-level CS (Cobots Superior) collaborative robot based on new infrastructure, a redesigned operation interface, new software display technology, and robot ontology. This comprehensive hardware and software upgrade embodies the flexibility and openness of a new generation of collaborative robots, which will become a monumental step for the future of ELITE ROBOTS and further advance the entire collaborative robot industry.



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## Key Account



## A Plug-And-Play Collaborative Robot Ecosystem

ELITE ROBOTS is advancing innovation in collaborative robots by bringing plug-and-play ease to the development of cobot arms, peripherals, and software. We provide a one-stop solution for our customers with an ecosystem of compatible collaborative robots and end-effector solutions.



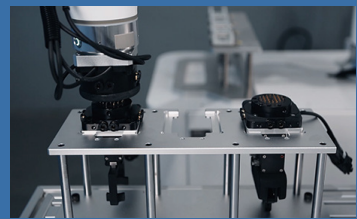
### ELITE ROBOTS + EWELLIX liftkit

Increases productivity while maintaining the same footprint by adding vertical articulation.



### ELITE ROBOTS + SOLOMON Vision

Add random pick and place functionality through vision-guided robotics (VGR).



### ELITE ROBOTS + Gimatic EQC electric quick change

Rapidly switch end-effectors based on your needs.



### ELITE ROBOTS + SENSOPART Camera + Stander AGV

Improves loading and unloading precision.



### ELITE ROBOTS + OnRobot gripper

Direct end-to-end connection to avoid complex wiring



### ELITE ROBOTS + Geek+ + AGV trolley

They are widely used in inspection, material management, mobile assembly, and other fields.



### ELITE ROBOTS + Silver XEG series gripper

Simplify your configuration and make installation easier with 485 communication.



### ELITE ROBOTS + ZIMMER HRC-02 gripper

IO control for a more flexible way of switching to different clamping settings.



### ELITE ROBOTS + SICK Safe Distance Sensor

Enable contactless safeguards: safety stop and reduced movement modes.