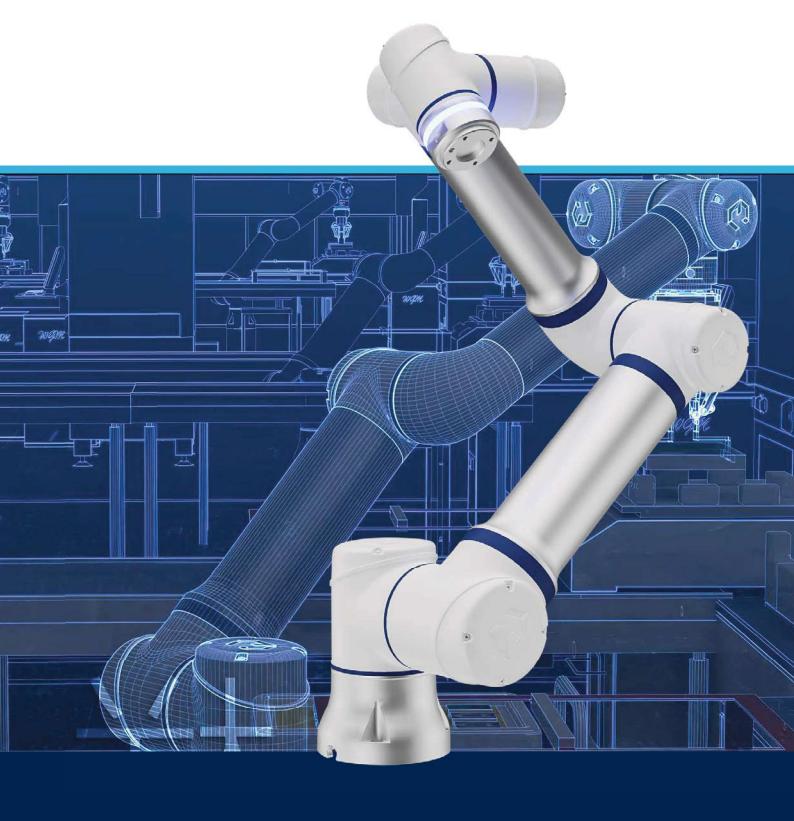


# COMPANY PROFILE











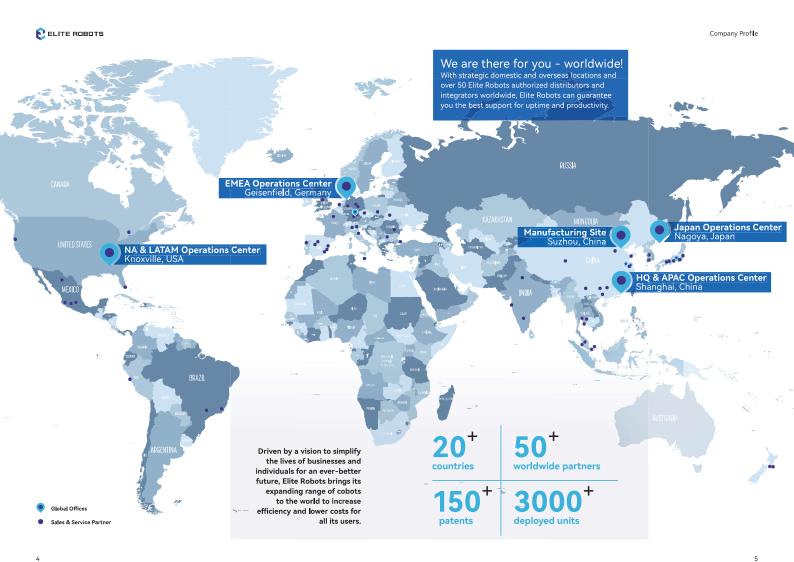
### **Always Easier Than Before**

Elite Robots is a global automation solutions provider focusing on collaborative robots, also known as cobots. Founded in 2016 and headquartered in Shanghai, with a workforce of more than 250 people, 40% of whom are technical and R&D staff, it is the cobot manufacturer with the highest independent R&D rate in China. Its lightweight fast and easy-to-use to-

Series, and has earned a superior reputation among users in the automobile and parts, 3C, packaging logistics, metal processing, rubber & plastics, chemical products and other industries. By 2022, the company has established a Chinese operating facility of more than 11,000 square meters and 3 strategic overseas subsidiaries in the United States, Germany and Japan. Its cobots have been deployed in more than 20 countries worldwide and recognized by thousands of satindependent R&D rate in China. Its a strategic overseas subsidiaries in clightweight, fast and easy-to-use ro-bots stand out for their reliability and cost-effectiveness, carrying out the mission to simplify the lives of businesses and individuals.

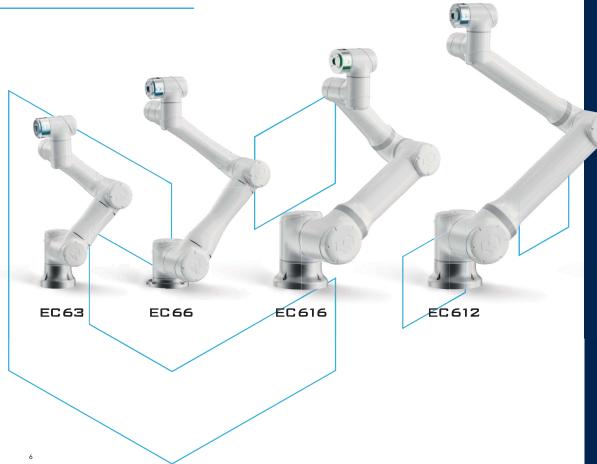
The Elite Robots cobots portfolio currently includes the EC Series and the CS results of the CS results of the United States, Germany and Japan. Its cobots have been deployed in more than 20 countries worldwide and recognized by thousands of satternesses and individuals.

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## **EC SERIES**



### **Make Complex Processes Simple**

LIGHTWEIGHT:
 The world's first collaborative robots which weigh less and lift more, with a payload to self-weight ratio up to 0.49, for effortless lifting and carrying, and lower power consumption.

USER-FRIENDLY:
Easy to install and redeploy for new tasks. Ultra sensitive free-drive function to smoothly teach the running path to the cobot. Interactive programming of teach pendant/PC.

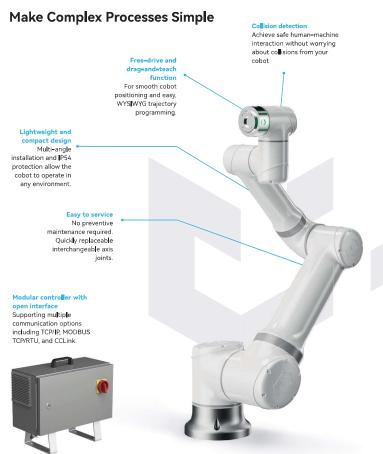
FLEXIBLE:
 Inter-model interchangeable joints with
 ±360′ rotation. Multiangle installation
 (floor / walf / ceiling). Supported
 multiple development languages and
 communication protocols.

EFFICIENT:
 Maximum speed up to 3.2 m/s, with 24/7 operating efficiency, smooth trajectory, and continuous motion to improve and accelerate production

INDUSTRIAL DESIGN:
 Robust and streamlined industrial
design in aluminum alloy. The IP54
protection rating allows the cobot to
properly function even in non-optimal
environmental conditions.



### **EC SERIES**





Remote control via web teach-pendant
Users can remotely interact with the cobot
through Ethernet protocol via laptop, phone or
pad. It allows real-time control and monitoring of
the cobot (with 3D view display of its status), and more flexible programming.





## EC63











- HIGHLIGHTS:

  Ideal for high precision and light-load assembly

  Small footprint, only Ø 128 mm, perfect for table-top applications and workstations with limited space

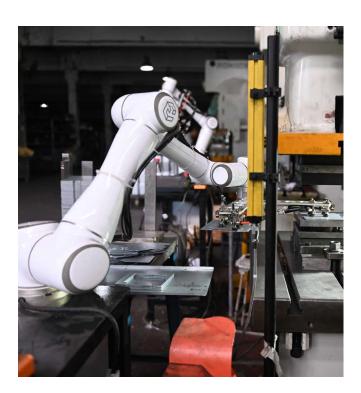
RECOMMENDED INDUSTRIES:
3C electronics, retail and consumption, medical, research and education

EXAMPLES OF SUITABLE APPLICATIONS: Pick and place, tightening, assembly, screw-driving, quality inspection, cooking & serving





### ELITE ROBOTS



### EC 66









- HIGHLIGHTS:
   The most popular and widely used cobot of the entire line
- Suitable for automating a large variety of low-weight processing tasks

RECOMMENDED INDUSTRIES:
3C electronics, automotive, chemical industry, metal processing, F&B, logistics, renewable energy, medical, retail and consumption

**EXAMPLES OF SUITABLE APPLICATIONS:**Pick and place, tightening, assembly, screwdriving, machine tending, palletizing, quality inspection, welding, AGV mobility, material removal, cooking & serving





## EC612















- HIGHLIGHTS:

   The wide 1304 mm radius enables EC612 to perform automation operations like packaging and palletizing even when there is a large distance between different operating areas

   The TCP speed of 3.2 m/s makes it the fastest cobot in the entire product line

RECOMMENDED INDUSTRIES: Automotive, chemical industry, pharmaceutical, metal processing, F&B, logistics

EXAMPLES OF SUITABLE APPLICATIONS: Pick and place, high torque tightening, assembly, screw-driving, machine tending, palletizing, welding, material removal









### EC616







- HIGHLIGHTS:

   Its weight of 32.5 kg and payload of 16 kg make it the cobot with the best load-to-weight ratio in the entire ELITE ROBOTS product range

   Suitable for high load palletizing and other automation scenarios requiring high payloads

RECOMMENDED INDUSTRIES: Automotive, chemical industry, pharmaceutical, metal processing, F&B, logistics

EXAMPLES OF SUITABLE APPLICATIONS: Pick and place, high torque tightening, assembly, screw—driving, machine tending, palletizing, welding, material removal







## **Electronics**

In this constantly evolving industry that is particularly sensitive to rising labor costs, offering flexibility is paramount. A cobot that can be quickly reprogrammed for new tasks or redeployed for new production lines is what electronics companies are looking for.

Elite Robots' product line can provide these benefits, as well as certified safety that allows human workers to assist the cobot (subject to risk assessment) while completing tasks such as loading & unloading, screwing, and quality inspection



## Typical Applications















PCB board tightening at BOSCH plan



Pick & place of PCB board



Loading & unloading of digital components



1-to-3 pick and pace with machine tending

### **Automotive**





From machine loading to inspection and assembly, this industry has always been known for its rigorous standards and high productivity, as well as for a need for customization and flexibility in order to respond quickly to changing consumer demands. Over time, Elite Robots has fully met these needs, serving an ever-increasing number of Tier 1 0EMs and subcontractors, often even integrating with industrial robots to perform some specific automation tasks.

















Cylinder head inspection



Tailights screwin



ghtening of engine bolts



Screwing car body par





## **Logistics & Warehousing**



Logistics and warehousing are cross-cutting sectors that although they have developed considerably in recent years, partly due to the proliferation of e-commerce around the world, are continually subjected to new chal-lenges to overcome, such as understaffing, expensive labor, high-mix orders, shortened product life cycles, and even the need to avoid workplace injuries caused by heavy lifting.

costs, by automating tasks such as end-of-line pick and pack, palletize and put away, and transforming pressure into performance.









### **Typical Applications**













## **Metal & Machining**



This labor intensive industry is often characterized by 24/7 year round shifts, frequently in harsh environments and involving repetitive, physically demanding, and dangerous tasks.

Significantly reduce the risk of workplace Significantly reduce the risk of workplace injuries and errors, and move your workers from undesirable workstations by deploying Elite Robots' cobots for your machine tending, drilling and welding tasks.

With an accuracy of 0.03 mm, the IP65rated robotic arm, and the effortless multi-angle installation (floor / wall / inclined / ceiling) thanks to its lightweight design, you will have more consistent quality and more



























## HoReCa (hotels, restaurants, catering)

more are increasingly making use of robots that can provide non-stop, top-dass service while boosting their bottom line.

Robots are gradually becoming an integral part of our lives, no longer remaining confined to production facilities or labs, but also performing customer-facing tasks and other retail-related activities. In the fact that the confined to production facilities or labs, but also performing customer-facing tasks and other retail-related activities. In the fact that the confined to product of the confi













### **Typical Applications**













## **More Industries** & Applications













Power plant IR inspection









### Company Profi**l**e

## **EC SERIES**

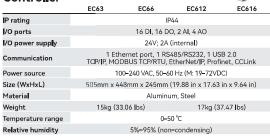
### **Robotic Arm**

		EC63	EC66	EC612	EC616
Pay <b>l</b> oad		3kg (6.61 lbs)	6kg (13.23 lbs)	12kg (26.46 lbs)	16kg (35.27 lbs)
Radius		624mm (24.57 in)	914mm (35.98 in)	1304mm (51.34 in)	954mm (37.56 in)
Axis		6			
Programming		JBI, free drive programming, offline programming, LUA-script			
Power consumption*		150w	250w	500w	500w
Repeatability		±0.03mm	±0.03mm	±0.03mm	±0.03mm
Axis working range	Joint 1	±360°	±360°	±360°	±360°
	Joint 2	±360°	±360°	±360°	±360°
	Joint 3	±158°	±165°	±168°	±160°
	Joint 4	±360°	±360°	±360°	±360°
	Joint 5	±360°	±360°	±360°	±360°
	Joint 6	±360°	±360°	±360°	±360°
Axis Max speed	Joint 1	144°/s	144°/s	120°/s	120°/s
	Joint 2	144°/s	144°/s	120°/s	120°/s
	Joint 3	180°/s	180°/s	1 <u>44</u> °/s	150°/s
	Joint 4	224°/s	224°/s	180°/s	210°/s
	Joint 5	224°/s	224°/s	180°/s	210°/s
	Joint 6	224°/s	224°/s	180°/s	210°/s
Max TCP Speed		2.0 m/s	2.8 m/s	3.2 m/s	2,8 m/s
IP rating		IP54			
Mounting		Any angle			
I/O ports		2 DI, 2 DO, 1 AI, 1 AO, 1 RS845			
Tool I/O voltage		24 V			
Tool I/O power supply		1A (Single pin), 2A (Dual pin			
Footprint		Ø 128 mm	Ø 150 mm	Ø 200 mm	Ø 200 mm
Material		Aluminium, Plastic, Steel			
Cable length		5.5m			
Weight		13kg (28.66 lbs)	17.5kg (38.58 lbs)	33.5kg (73.85 lbs)	32.5kg (71.65 lbs)
Temperature range		0–50 ℃			
Relative humidity		5%-95% (non-condensing)			
Certifications		EN ISO 10218-1			

<sup>\*</sup> Normal working conditions

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### **Teach Pendant**

Screen display size	307.34 mm (12.10 in)		
nput method	Resistive touch-screen, physical buttons		
Resolution	1280 x 800 pixels		
Materia	Aluminum, Plastic		
Weight	1.8 kg (3.96 lbs.)		
IP rating	IP65		
Cable length	5.5 m (216.53 in.)		
Relative humidity	5%-95% (non-condensing)		