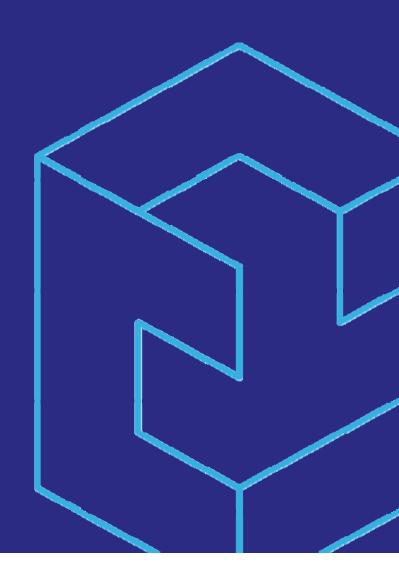


ELITE ROBOT

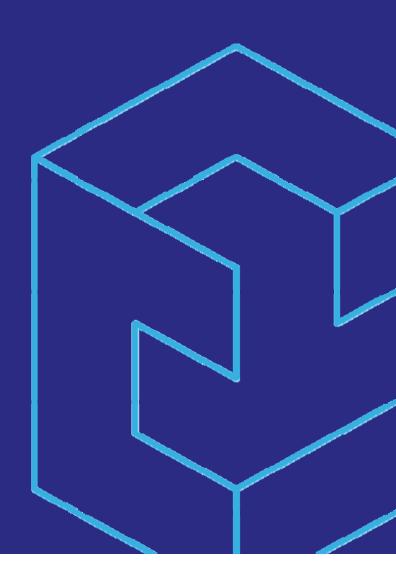
ALWAYS EASIER THAN BEFORE





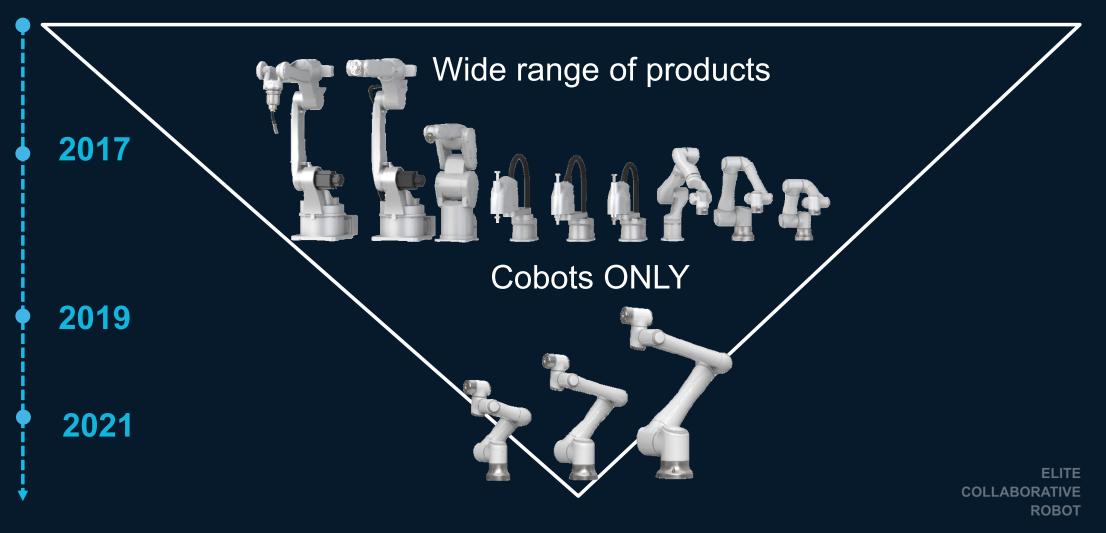
ABOUT ELITE

We are cobots experts





Change of Product Portfolio





before 2018 phased out



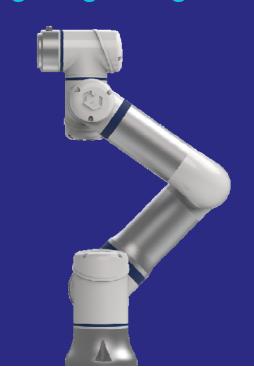
EC-series 3kg/ 6kg/ 12kg



CS-series 3kg/ 6kg/ 12kg











Cobot Applications









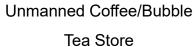
Screw driving

Polishing

Loading and unloading

Inspection







Palletizing



Co-work with AGV



Machine Tending



Eliminate The Pain Points by Cobots

Current situation

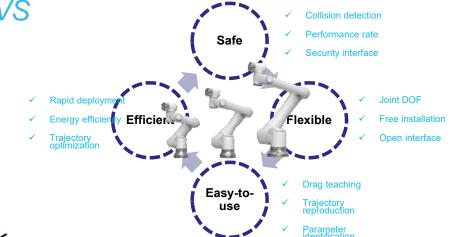
- Price pressure
- Production line management challenges: flexibility and switching
- · Increasing global competition
- Lack of labor
- · Increasing demand for productivity
- Product quality requirements

Requirements

- ✓ Faster marketing
- ✓ More demanding manufacturing cycle
- ✓ Higher equipment efficiency
- ☑ Further reduce labor costs
- Market segmentation and precision marketing,
- ☑ Personalized order customization
- ✓ Increasing non-industrial demands

Traditional industrial robot

- · High speed, high precision or heavy load and large working range requirements
- No man-machine cooperation or low frequency of line change, and insensitive space occupancy
- Bad working conditions such as welding and polishing or special process requirements



More varieties, less batch production and higher requirement for simple operation

Cobots

- Constrained space, man-machine shared space and other occasions focusing on safety
- High requirements for power consumption and weight

Suitable

Suitable

Suitable



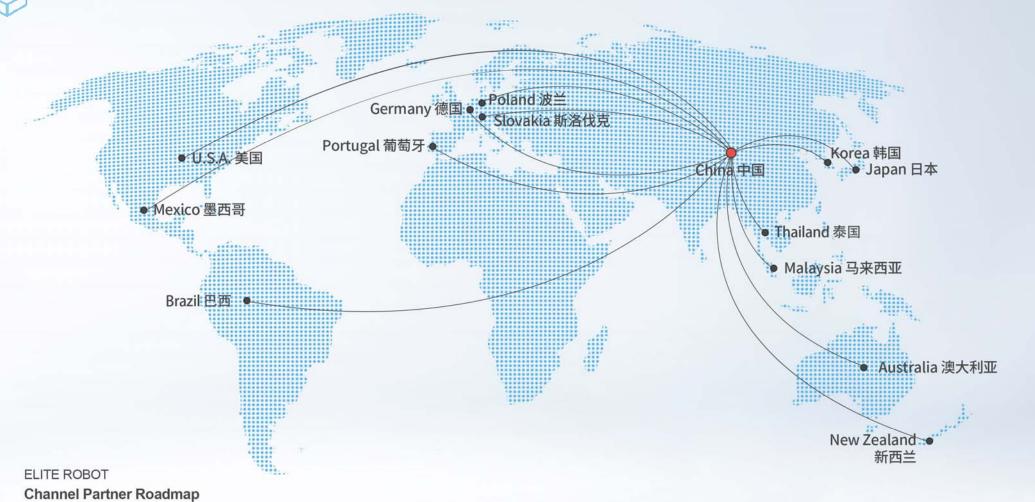
17 years automation background, 140 people, 60 R&D and tech function 1,000 pcs cobots sold in 2020

8-12 months ROI

Shanghai, Suzhou, Beijing, Shenzhen, Knxoville, TN



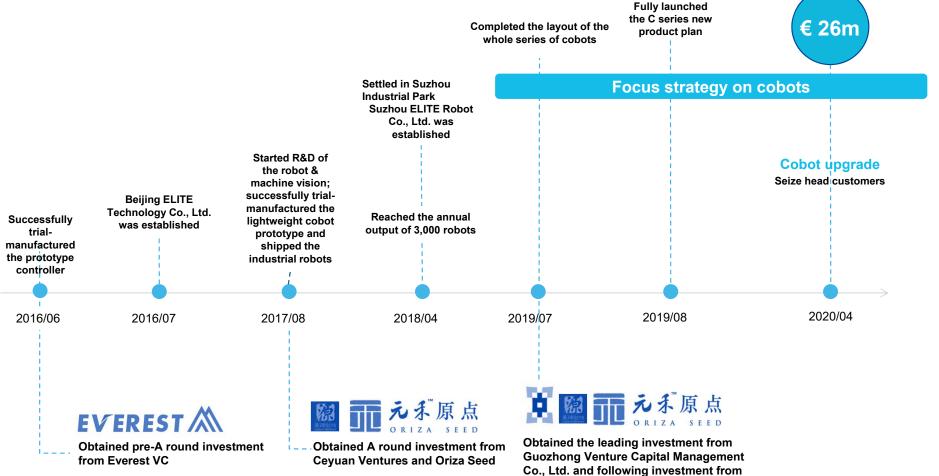
Overseas Market







Scale up the cobot upgrades



Ceyuan Ventures and Oriza Seed

ELITE COLLABORATIVE ROBOT



Technology Foundation

Man-machine safety Force control instruction Force control Force/torque sensor Sensor/transmission combination Simple teaching Assembly/grinding 2D object recognition and Deep box/mixed palleting and Cobots Machine vision segmentation depalletizing Vision and control integration Hand-eye coordination 2D/3D registering Obstacle avoidance planning High safety Motor drive Servo drive Integrated joint Real-time stiffness control High precision encoder Double closed-loop Trajectory planning Adaptive 7-axis High safety Flexible body control | Al motion planning Motion control **Dynamics** High openness Trajectory planning Two-arm Robot controller 6-axis/7-axis 6-axis Second generation Industry/Services Robot Industrial robot Cobots Whole series of cobots Multipurpose

Dark: finished

Light: in progress

planning



99 patents

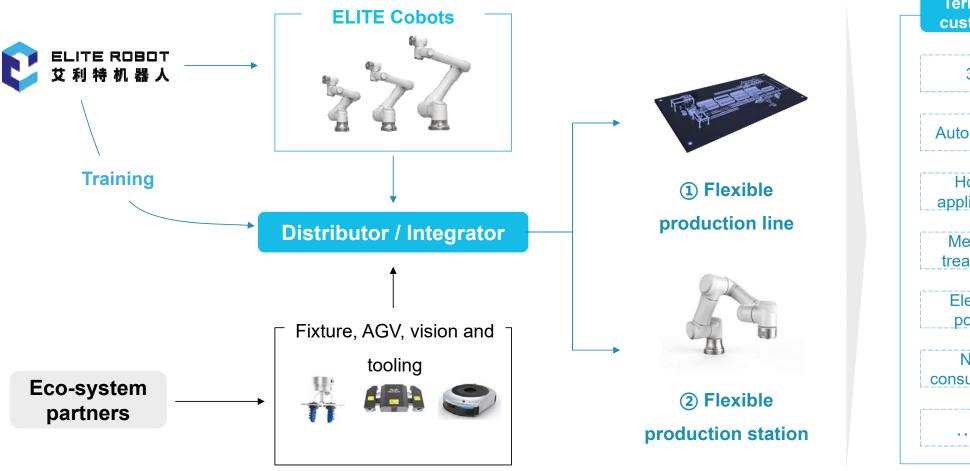
€ 3.85m per year for R&D

60 front-end and application side R&D personnel

90% master degree or above



Business Mode & Eco-system

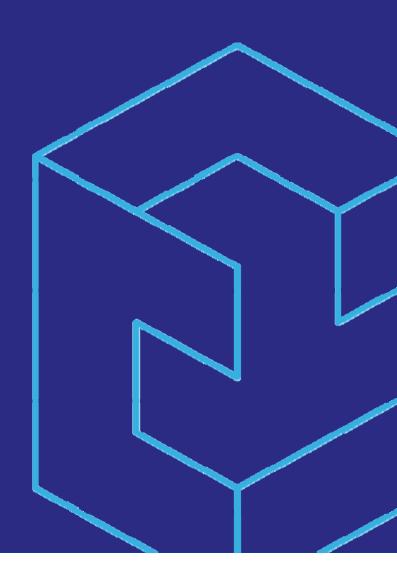


Terminal customer 3C Automobile Home appliances Medical treatment **Electric** power New consumption



OUR TEAM

We know cobots market





Management Team

Core executives with technical product marketing genes



Cao Yunan | Chairman & CEO

- Doctor of Robotics Institute, BUAA, Postdoctoral of Tsinghua University, former research fellow, Department of Computing, Hong Kong Polytechnic University;
- 17 years of experience in CNC/robot industry, experience in GSK, Dalian Gona and other product projects, familiar with the development process, project management and requirements of the robot industry;
- Responsible for the core algorithm development; corporate structure design; enterprise development strategy formulation; market/brand building and import of important resources



Sun Kai | CTO

- Doctor of Robotics Institute, BUAA, former research fellow, Department of Computing, Hong Kong Polytechnic University, a second prize at the provincial and ministerial level
- Mainly oriented at the design and development of robot, CNC, servo drive and other hardware and software, rich experience in the robot structure design, motion control algorithm, embedded mechatronic design R&D and management; responsible for ELITE product direction development and technical support
- Director of the new C series, founder of the new-generation cobots and technical concept promoter



Wu Fei | National sales director

- Fudan University EMBA
- Industry sales manager in SMC for 6 years, responsible for the new business import and team building; double the achievements for 3 consecutive years;
- East/Central/North China Sales Manager in UR for 3 years; the first regional manager in 3 regions; achieves the sales volume accounting for 2/3 of the UR sales volume in China and won the order (Huayu) with the world's largest order in the cobot industry;
- Won the sales champion and global outstanding sales manager award for 3 consecutive years; achieved the annual regional sales growth of 50%;
- Develop benchmark customers for cobots in various industries: Valeo, Unilever, Continental Automotive, FAW-Volkswagen, Huayu; AAC Technologies, Yijiahe, TINAVI and L'Oreal



Cai Songlin | Director of Application and Product Department

- Tsinghua University Master of Instrument and Meter Engineering
- Shanghai Jiaotong University- Bachelor of Mechanical Engineering Automation
- Cobot assembly and application manager in ABB Robot Division for 3 years, and core Chinese developer in ABB Yumi dual-arm robot R&D team, responsible for application and software development;
- UR+ and application manager in UR for more than 3 years, responsible for the application development of 5 scenarios of UR.
- Collaborate with the sales team to develop benchmarking applications for specific application scenarios in China: dual-arm collaboration, AGV+ mechanical arm mobile platform, force control assembly and 3D mobile platform;
- Global UR+ ecological platform hardware and software product certification and development of UR+ partners in China



Management Team



Zhang Xiaochuan | Software and Algorithm R&D Director

- · Bachelor of Tianjin University,
- Former manager of the Robotics Department of Beijing Bochuang Co., Ltd., engaged in CNC/robot product research and development for a long time;
- Maintain, upgrade and improve the control system and the drive-control integrated products; and have rich experience in the

robot process application;

- Cobot software development and algorithm, iterative maintenance, test management and team management
- China's first robot control system developer



Ren Yi | Marketing Director

- Shanghai Jiaotong University MBA
- 10年ebm-papst marketing manager for 10 years, and head of the Asia-pacific Market Alliance of ebm group; establish the strategic cooperation with the industry benchmark customer brands: F1 Mercedes, Haier, Huawei and China South Railway;
- Serve as marketing manager of UR for more than 2 years, establish the industry benchmarking brand status of UR China, promote UR+ ecological platform concept, initiate the first UR+ Developer Conference in China, compile the first blue book of cobot industry in China and become the cobot industry template;
- Responsible for the UR digital marketing strategy in Greater China



Lu Suwen| HR and Admin Director

- Undergraduate, Nanjing University of Information Science & Technology
- HRBP of SiFO Smart Automation Incorporated Company for 2 years, responsible for the internal engineering service department HRRP
- HR consultant in listed HR companies in UK and China for more than 7 years, major customers: LILLY, ROCHE, Nexteer and Bosch



Wang Tianmiao | Consultant

 Current subject review panel member of the academic degrees committee of the State Council, expert group leader of robotics topics of National 863 Program, deputy leader of manufacturing information engineering expert group of the Ministry of Science and Technology, member of the Robotics Professional Committee, member of Academic and Academic Degrees Committee of Beihang University, IEEE

member and , Director and professor of Robotics Institute, BUAA.

Current expert group leader in the advanced manufacturing field of
National "11th Five-Year" 863 Program, chairman of Embedded
Systems Expert Committee of Chinese Institute of Electronics,
President of College of Mechanical Engineering and Automation, BUAA









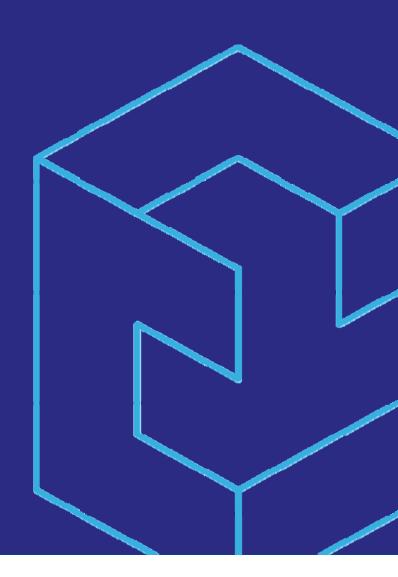






OUR PRODUCTS & APPLICATIONS

We know cobots tech





Product Matrix



EC - Series

Cost Competitive/ Capable/ Reliable

CS - Series

Superior/ Scalable/ Sustainable



Cost-competitive EC-Series



EC63 6-axis collaborative robot



EC66 6-axis collaborative robot



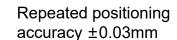
EC612 6-axis collaborative robot



Dead weight 13kg, load 3kg



624mm





Dead weight 17.5kg, load 6kg



Working radius 914mm



Repeated positioning accuracy ±0.03mm



Dead weight 31kg, load 12kg



Working radius 1304mm



Repeated positioning accuracy ±0.03mm



- Trajectory smoothing algorithm based on the acceleration jerk prospect, and high energy efficiency;
- Self-identification of dynamic parameters, sensitive dragging and high collision detection;



- Fully self-designed embedded cost-effective motherboard;
- Joint servo and high speed servo bus;



- Multilingual combination: JBI+Lua+ soft PLC, flexible and efficient;
- Stable and reliable JBI, smallest set; Luastrong external expansion capability, easy extension; the software PLC achieves logic programming conveniently and quickly;



Industries of Cobots

- Auto parts
- **3**C electronics
- Metal processing and Machine tending
- Packing & packaging
- Medical treatment and health
- New consumption and people's livelihood
- > Textile power













Applications of Cobots

- > Handling, pick & place, loading and unloading
- > Assembly and Screw driving
- Packaging and palletizing, depalletizing and sorting
- > Quality and appearance inspection
- Material removal, polishing, grinding and degating
- > Hybrid Robot
- Dispensing and gluning



















Cobot + Visual Camera

COGNEX

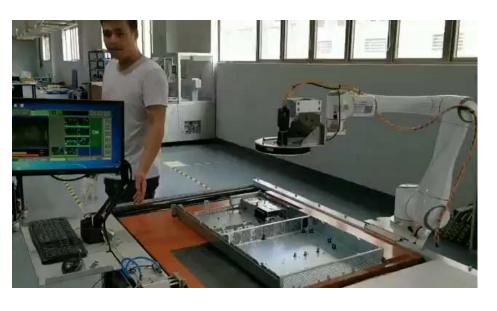


KEYENCE

SOLOMON











Cobot + Gripper















Simple

Efficient and flattening graphical interface based on the workflow; rich, dynamic and friendly programming with Python language; easy-to-maintain integrated motherboard and quickly replaceable joints

Superior

Faster external information exchange (frequency 500Hz); more I/O ports and stronger power supply capacity; more communication interfaces (3 Ethernet interfaces)

Safe

18 safety functions, , covering speed, position, force, power and momentum, are fully designed according to ISO13849-1 Cat3 PLd, TS ISO 15066

ELITE platform level New cobot

Scalable

Scalable modular software framework; open underlying control and state interface; support a variety of bus communication protocols (Profinet, EthernetIP, Modbus RTU/TCP)

Sustainable

Platform level hardware design, software definition and extended functions; all software and firmware support one-click upgrade; continuous and comprehensive documentation and technical support



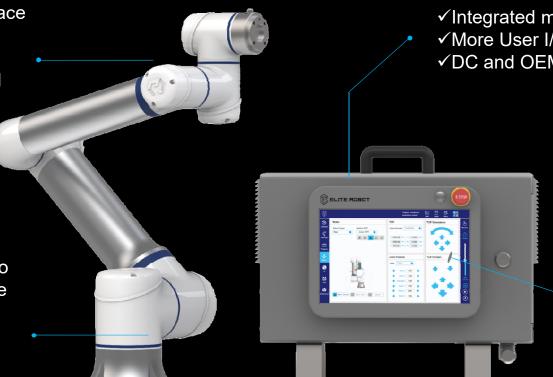
New hardware and software architecture

✓ Powerful tool I/O interface and power supply capability (3A)

✓ New joint structure and internal circuit design

√3-joint wrist rotation without pinch point

- ✓ Safe and powerful servo drive integrating multiple sensors
- ✓ New high-precision encoder system
- ✓ Built-in attitude and acceleration sensor



- ✓ Integrated motherboard control system
- ✓ More User I/O (24 inputs and 24 outputs)
- ✓DC and OEM version

- ✓ Python based robot language
- ✓Optimized graphical
- instruction and operation flow
- √Functional extensible architecture based on JAVA and network



COBOT SUPERIOR

全新CS系列协作机器人





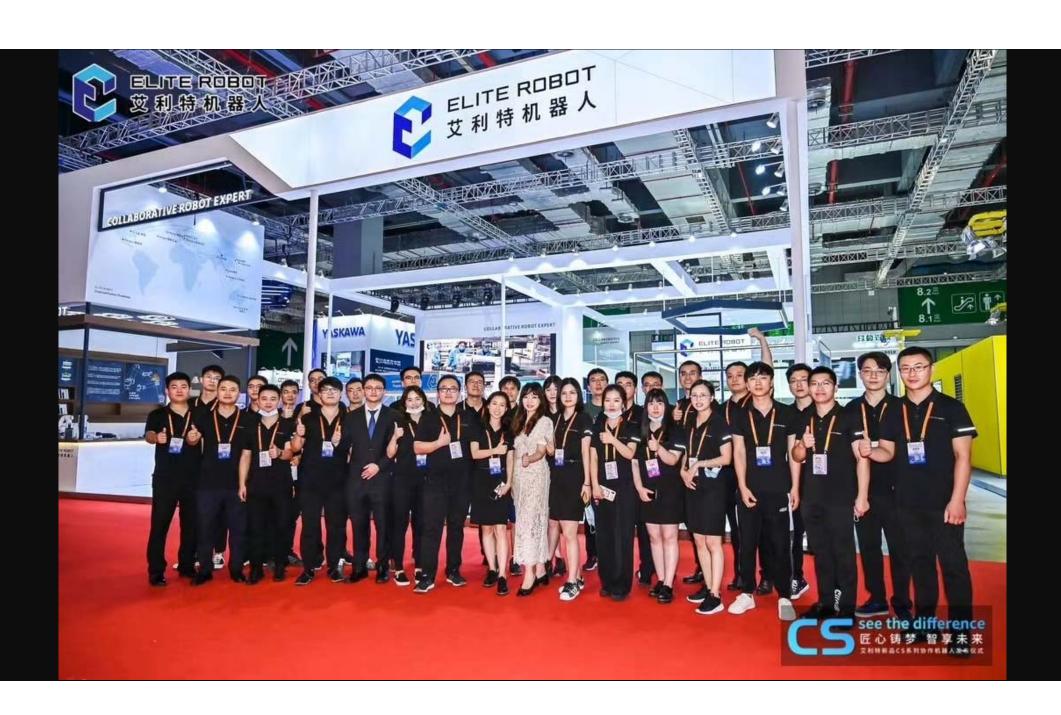
CS Series

Product Launch Sep., 2020

In-house Testing 6 months

Sample Testing by customers 6 months

Overseas Demo Jun., 2021

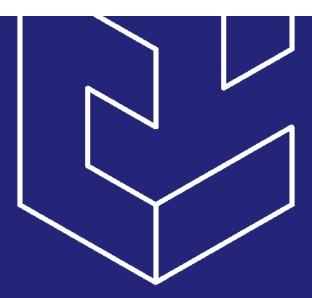


THANKS FOR YOUR TIME



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