ELITE ROBOTS

CS SERIES COBOTS
CP SERIES PALLETIZER

ELITE ROBOTS

ALWAYS EASIER THAN BEFORE

Elite Robots is a leading manufacturer of **collaborative robots,** also known as cobots. Founded in 2016, the company has made great strides in the world of robotics, developing an **extensive range of robotic arms and automation solutions** that is constantly being updated and expanded. In line with the company's founding motto (Always Easier than Before), Elite Robots' creations make life easier every day for businesses and individuals around the world for an ever brighter future.

2016
Year founded

300+
Employees

200+
Patents

15k+
Deployed Units

CS SERIES
Collaborative Robots Line

Enhanced Safety
27 safety functions
(PL d with Cat. 3
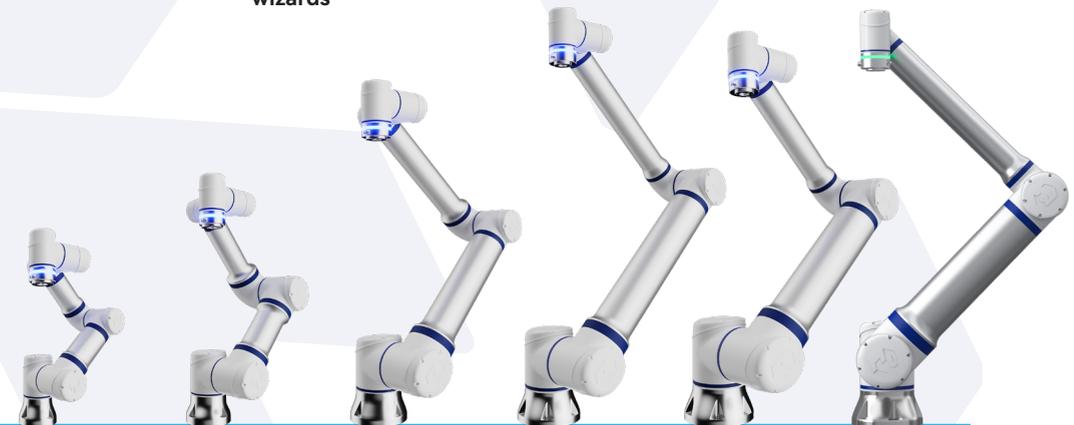for SF01–SF27;
ISO 13849-1)

Graphic Programming
with expandable
UI supporting
custom plugins
and **application wizards**

Greater Openness
Compatible with
multiple protocols.
24 DI & DO
(8 config.)

High Ingress Protection
Standard **IP65**
(optional **IP68**)

	CS63	CS66	CS612	CS620	CS625	CS530H*
Payload	3 kg / 6.6 lb	6 kg / 13.2 lb	12 kg / 26.4 lb	20 kg / 44 lb	25 kg / 55.1 lb	30 kg / 66.1 lb
Radius	624 mm / 24.5 in	914 mm / 35.9 in	1304 mm / 51.3 in	1800 mm / 70.8 in	1500 mm / 59 in	1522 mm / 59.9 in
Repeatability	±0.02 mm	±0.03 mm	±0.05 mm	±0.1 mm	±0.08 mm	±0.1 mm
TCP Speed	2.0 m/s	2.8 m/s	3.4 m/s	3.9 m/s	3.3 m/s	4.0 m/s

ISO 13849, ISO 10218   UL, CE, KCs   ISO 14644 cleanroom class 5, RoHS   SEMI-S2

The CS530H robotic arm can only be supplied as part of the CP series palletizing solution.
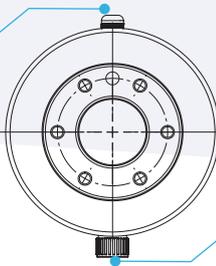
CS SERIES
Highlights

Integrated free-drive function
Embedded button for free-drive programming

High output capacity for EOAT
Standard 8-pin connector with **capacity up to 3A**. Additional 4-pin connector **up to 5A for payloads ≥20 kg (44 lb)**. Strong power supply for end effectors.

Safe and for all environments
27 Safety functions: Compliance with PL d Cat. 3 for SF01–SF27 (**ISO 13849-1**). Standard **IP65 protection upgradeable to IP68**. **ISO class 5 cleanrooms**.

Lumberg RKMW 8-354 connector

HRS LF10WBRB-4P connector

PROFI NET

EtherNet/IP

Modbus

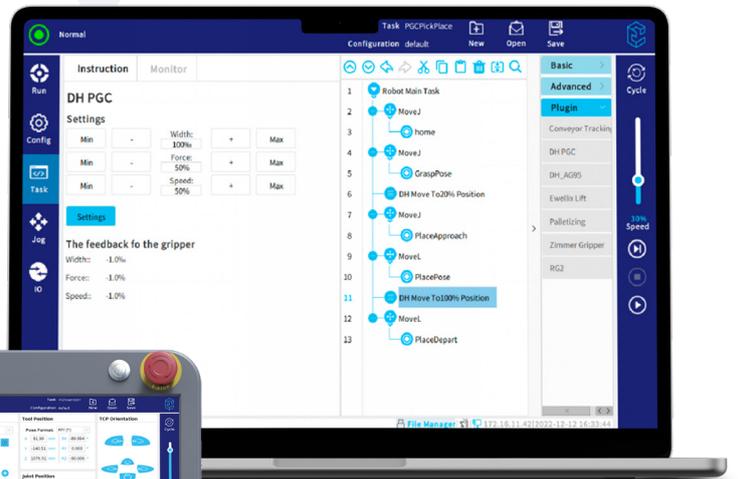**RS-485**

Highly Expandable Controller with OEM option
24 DI (8 config.) / 24 DO (8 config.), 4 high-speed digital inputs. Integrated holder to attach the TP for optimal storage.
Optional OEM controller for users who want to create their own custom design.

ERP400 Teach-Pendant
12.1" detachable Teach Pendant with full-touch capacitive screen. Optional version (**ERP400S**) with 3-modes enable key for enhanced safety.

Advanced Software Interface
The CS Series features an intuitive graphical interface for **user-friendly programming via Teach Pendant, laptop and other peripherals**.
The **highly flexible SDK** supports custom plugins, for maximum expandability and customization.

WORKS WITH LEADING PROGRAMMING & SIMULATION PLATFORMS

:::ROS2

RoboDK ROBOT DEVELOPMENT KIT

VISUAL COMPONENTS

CP SERIES
All-in-1 Collaborative Palletizing Solution

With a **maximum payload of 30kg (66.1 Lbs)** and a **stacking height of up to 2600mm (102.3 in**), the Elite Robots **CP** (**Collaborative Palletizer**) **Series** is ready to streamline your end-of-line operations. Ensuring a **fast installation** just right of the box, this **cost-effective, safe and easy to use** (no programming skills required) **modular palletizing solution** can accommodate diverse payloads and pallet heights and easily adapt to different customer requirements.
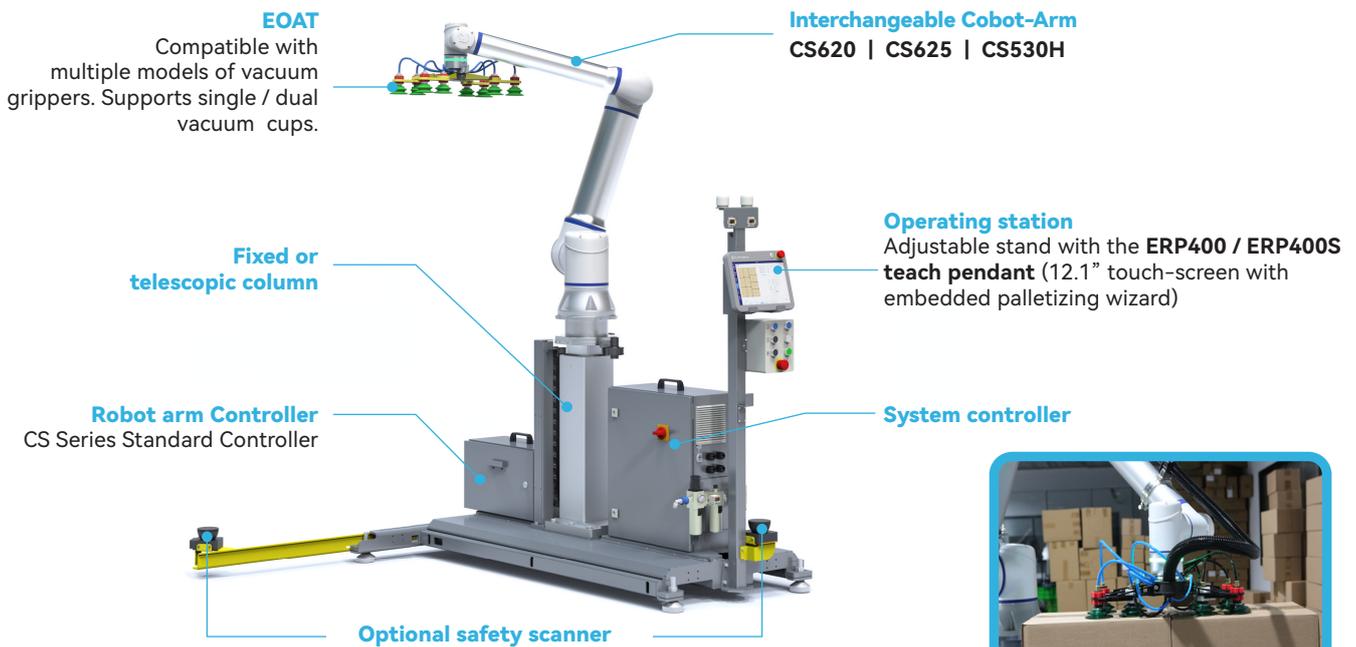
High Payload
Up to **30 Kg / 66.1 Lbs**

High Stacking Height
Up to **2600 mm / 102.3 in**

Up to 20 Boxes/Min
with dual vacuum cup

EOAT
Compatible with multiple models of vacuum grippers. Supports single / dual vacuum cups.

Interchangeable Cobot-Arm
CS620 | CS625 | CS530H

Fixed or telescopic column

Operating station
Adjustable stand with the **ERP400 / ERP400S teach pendant** (12.1" touch-screen with embedded palletizing wizard)

Robot arm Controller
CS Series Standard Controller

System controller

Optional safety scanner

The CP Series in dual-cup mode

Fixed or lifting base column

The combination of the 3 cobot arms with the two alternative base columns (**CPF= Fixed Column**; **CPL= Lifting Column**) offers a rich selection of variants capable of handling **payloads between 20-30kg (44-66.1 Lbs), pallets up to 1200mm (47.2 in) in length/width** and **stacking height up to 2600mm (102.3 in)**. This makes the CP Series ideal to support applications across various industries.

1000 mm

1700 mm

1700mm

1200mm(L)*1200mm(W)

CPF10

2600mm

1200mm(L)*1200mm(W)

CPL07

CS SERIES

Robot arm

		CS63	CS66	CS612	CS620	CS625	CS530H*
Payload		3 kg / 6.6 lb	6 kg / 13.2 lb	12 kg / 26.4 lb	20 kg / 44 lb	25 kg / 55.1 lb	30 kg / 66.1 lb
Radius		624 mm / 24.5 in	914 mm / 35.9 in	1304 mm / 51.3 in	1800 mm / 70.8 in	1500 mm / 59 in	1522 mm / 59.9 in
Repeatability		±0.02mm	±0.03mm	±0.05mm	±0.1mm	±0.08mm	±0.1mm
Axis				6			5
Joints rotation	J1	±360°	±360°	±360°	±360°	±360°	±360°
	J2	±360°	±360°	±360°	±360°	±360°	±360°
	J3	±360°	±360°	±360°	±360°	±360°	±360°
	J4	±360°	±360°	±360°	±360°	±360°	–
	J5	±360°	±360°	±360°	±360°	±360°	–
	J6	±360°	±360°	±360°	±360°	±360°	±360°
Joints speed	J1–J2	180°/s	150°/s	120°/s	125°/s	125°/s	125°/s
	J3	230°/s	180°/s	150°/s	150°/s	150°/s	150°/s
	J4	230°/s	230°/s	180°/s	210°/s	210°/s	–
	J5–J6	230°/s	230°/s	180°/s	210°/s	210°/s	210°/s
Max TCP Speed		2.0 m/s	2.8 m/s	3.4 m/s	3.9 m/s	3.3 m/s	4.0 m/s
IP rating		IP65 (optional IP68)					
Temperature range		–10~50℃ / 14°F~122°F					
Relative humidity		<90% (non-condensing)					
Typical power usage		185w	250w	435w	625w	625w	600w
Mounting		Any orientation					Front/Reverse
Tool I/O connector		M8, 8pin			T1: M8, 8pin T2: Ø 12.8mm, 4pin		
Tool I/O ports		4 config. DI / DO; 1 AI, 1 AO					
Tool I/O power supply		0 / 12V / 24V; 3A / 2A / 1A			T1: 0 / 12V / 24V; 3A / 2A / 1A T2: 24 V; 5A		
Tool I/O communication		RS485					
Footprint		128 mm / 5 in	150 mm / 5.9 in	190 mm / 7.4 in	240 mm / 9.4 in	240 mm / 9.4 in	240 mm / 9.4 in
Weight		15 kg / 33 lbs	20 kg / 44 lbs	34 kg / 74.9 lbs	60 kg / 132.2 lbs	58 kg / 127.8 lbs	58 kg / 127.8 lbs
Material		Aluminum, steel, plastic, rubber					
Cable length		5.5 m / 216.5 in**					
Programming		Python-script, graphical proprietary user interface, free-drag/offline programming					

* The CS530H robotic arm can only be supplied as part of the CP series palletizing solution.
** Optional cable lengths of 1.5 m (59 in), 3 m (118 in) and 8 m (314.9 in) and additional extensions up to 10 m (393.7 in) are available.

CS SERIES

Controller

Type	Standard AC	OEM AC / DC
I/O ports	24 DI, 24 DO (8 safety config. DI/DO); 2 AI, 2 AO; 4 High-Speed DI	
I/O power supply	24V/3A (internal), 6A (external)	
Communication	RS485, Ethernet TCP/IP, Modbus TCP/RTU, Ethernet/IP slave, Profinet slave	
Size	505 mm x 257 mm x 447 mm 19.8 in x 10.1 in x 18.1 in	495 mm x 200 mm x 227 mm 19.4 in x 7.8 in x 8.9 in
IP rating	IP44	IP40
Weight	12.5 kg / 27.5 lbs* 15 kg / 33 lbs**	4.5 kg / 9.9 lbs* 7.5 kg / 16.5 lbs**
Power source	100-240 VAC, 50-60 Hz	AC: 100-240 VAC, 50-60 Hz DC: 19-72VDC* / 40-55VDC**
Temperature range	0~50℃ / 32°F~122°F	
Relative humidity	95% (non-condensing)	
Material	Aluminum, Steel	

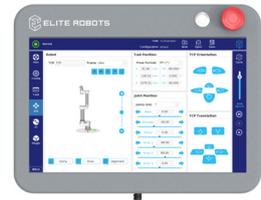* For cobots: **CS63 – CS66 – CS612** | ** For cobots: **CS620 – CS625 – CS530H**

CS Series standard AC controller

CS Series OEM controller

Teach Pendant

Model	ERP400	ERP400S
Size	301 mm x 232 mm x 54 mm 11.8 in x 9.1 in x 2.1 in	301 mm x 232 mm x 105 mm 11.8 in x 9.1 in x 4.1 in
Screen size	12.1"	
Resolution	1280 x 800 pixels	
IP rating	IP54	
Weight	1.7 kg / 3.7 lbs	1.8 kg / 3.9 lbs
Cable length	5.5 m / 216.5 in	
Temperature range	0~50℃ / 32°F~122°F	
Input method	Capacitive full touch-screen	Capacitive full touch-screen, 3-mode enable key, jogging-keys, function keys

The optional ERP400S TP integrates a 3-modes enable key for enhanced safety

CP SERIES

Base	Arm	Payload	Max Pallet Size (W x L)	Max Stacking Height
CPF10	CS620	20 kg / 44 lbs	1200 mm x 1200 mm 47.2 in x 47.2 in	1700 mm / 66.9 in
	CS625	25 kg / 55.1 lbs	1200 mm x 1000 mm 47.2 in x 39.3 in	1600 mm / 62.9 in
	CS530H	30 kg / 66.1 lbs	1200 mm x 1000 mm 47.2 in x 39.3 in	1600 mm / 62.9 in
CPL07	CS620	20 kg / 44 lbs	1200 mm x 1200 mm 47.2 in x 47.2 in	2600 mm / 102.3 in
	CS625	25 kg / 55.1 lbs	1200 mm x 1000 mm 47.2 in x 39.3 in	2300 mm / 90.5 in
	CS530H	30 kg / 66.1 lbs	1200 mm x 1000 mm 47.2 in x 39.3 in	2300 mm / 90.5 in

Performance & Common Specs

Max Speed	7 boxes/min (single vacuum cup) 20 Boxes/min (dual vacuum cup)
Operating Temperature	0~50℃ / 32°F~122°F
Peak Power Consumption	2~3.5kW
Power Source	Single-phase 220VAC/110VAC 50~60Hz
Footprint	1400mm x 1700mm / 55.1 in x 66.9 in

CPF10

CPL07