



CP SERIES

TURNKEY MODULAR PALLETIZER

The modular palletizing solution for all stacking tasks

With a **maximum payload of 30kg** and a **maximum palletizing height of up to 2,400mm**, the Elite Robots CP 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. **ROI in less than 12 months.**



Modular

Supports multiple configurations of columns and cobot to meet multiple requirements. Standalone components and optional accessories.



Safe

Compliance with ISO 10218, ISO 13849, and ISO/TS 15066 standards. Supports optional safety scanners with reduced mode and safety stop.



Flexible

Lightweight and compact structure with minimal footprint. Easy to move from one line to another one.



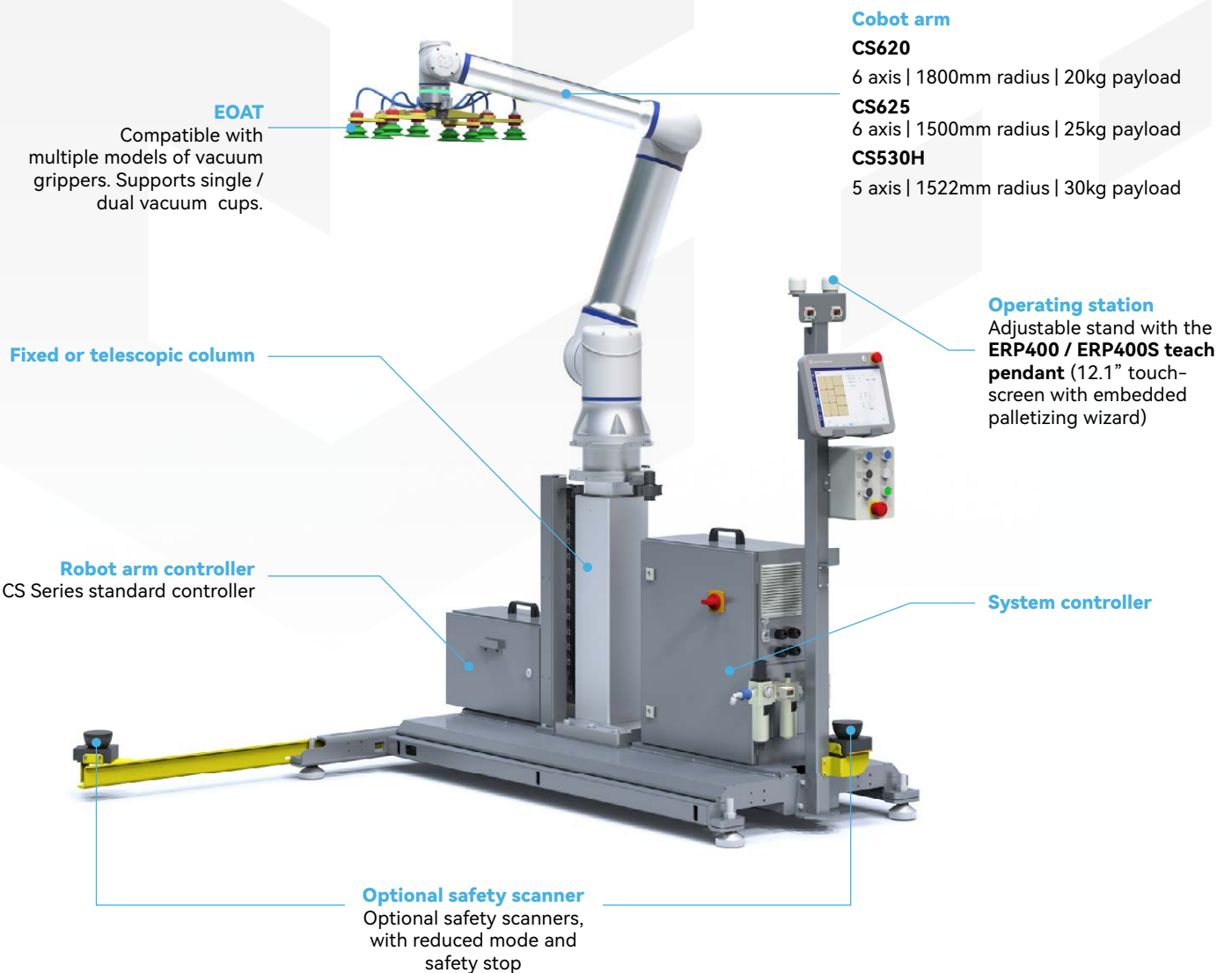
User-friendly

Embedded palletizing software with no programming required. Service-friendly design with standalone robot and electronics.



Fast to deploy

Initial setup in less than 1 hour. It can switch to a different palletizing task in less than 1 minute, and be redeployed in less than 10 minutes.



EOAT

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

Cobot arm

CS620

6 axis | 1800mm radius | 20kg payload

CS625

6 axis | 1500mm radius | 25kg payload

CS530H

5 axis | 1522mm radius | 30kg payload

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

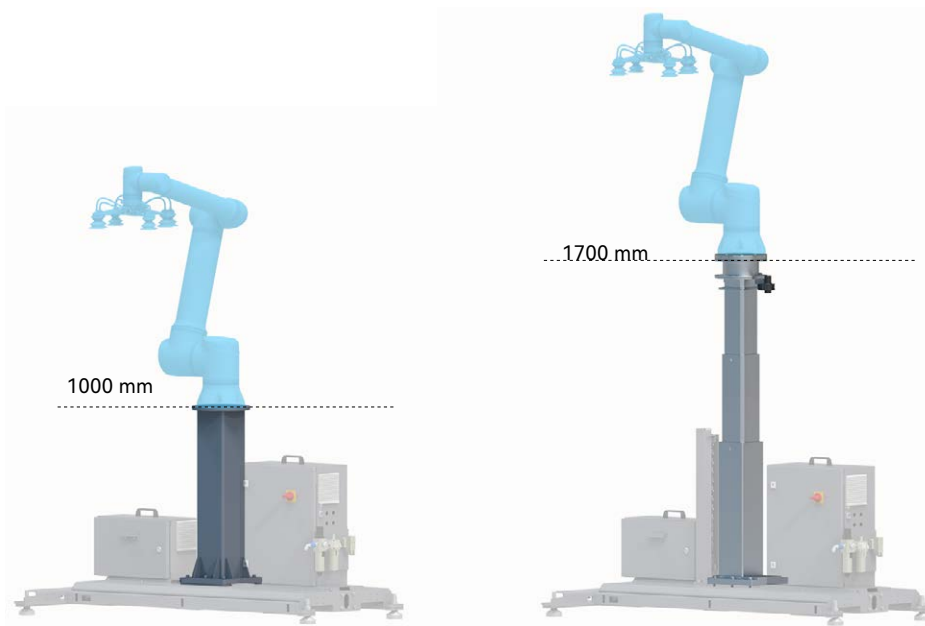
CS Series standard controller

System controller

Optional safety scanner

Optional safety scanners, with reduced mode and safety stop

Fixed or telescopic column



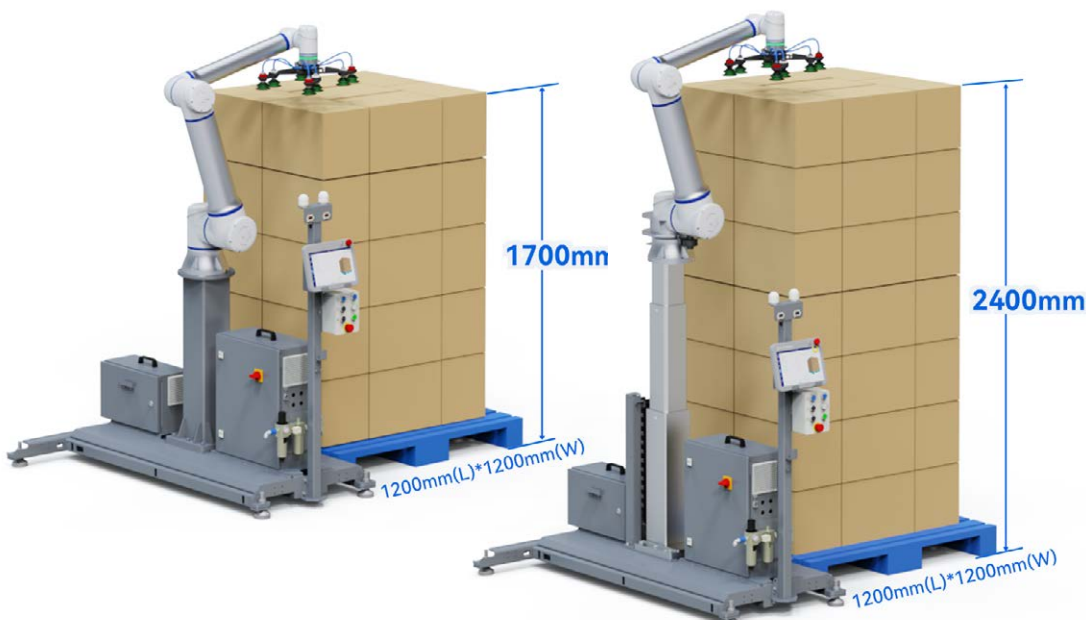
CPF10

CPL07

CS620	20 kg payload 1200 L x 1200 W x 1700 H mm MAX pallet size	20 kg payload 1200 L x 1200 W x 2400 H mm MAX pallet size
CS625	25 kg payload 1200 L x 1200 W x 1600 H mm MAX pallet size	25 kg payload 1200 L x 1200 W x 2300 H mm MAX pallet size
CS530H	30 kg payload 1200 L x 1200 W x 1600 H mm MAX pallet size	30 kg payload 1200 L x 1200 W x 2300 H mm MAX pallet size

Undertake any palletizing operation

The range of cobot arms combined with the two alternative columns offers a rich selection of variants capable of handling payloads between 20kg-30kg (12kg payload option also available), pallet size up to 1200mm length/width and stacking heights up to 2400mm. This makes the CP Series ideal to support applications across various industries.



High stacking capacity
Up to 1200mm (L/W) *
2400mm (H)



Up to 14 boxes/min
with dual vacuum-cups
mode ▼



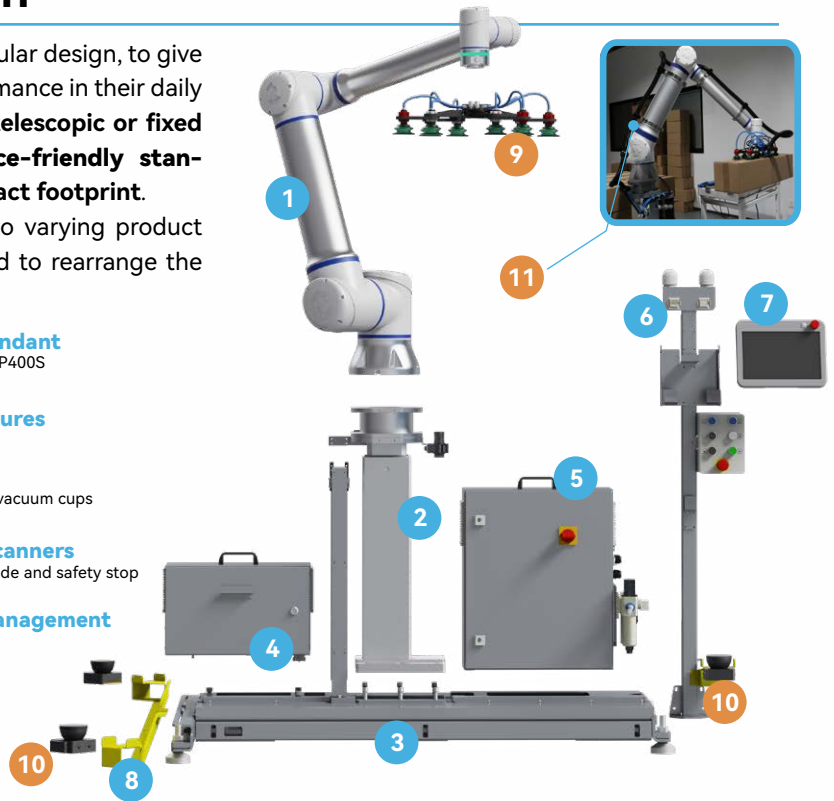
Efficient modular design

The CP Series has a heightened focus on modular design, to give customers a new level of flexibility and performance in their daily operations. The solution is equipped with a **telescopic or fixed column, teach-pendant stand, and service-friendly standalone operator boxes**, all in an **ultra-compact footprint**.

This makes the CP Series easily adaptable to varying product dimensions and pallet patterns, with no need to rearrange the facility layout.

- 1 **Cobot arm**
CS620 / CS625 / CS530H
 - 2 **Lifting column**
CPF10 (fixed) / CPL07 (telescopic)
 - 3 **Supporting base**
 - 4 **Cobot arm controller**
CS Series standard controller
 - 5 **System controller**
 - 6 **Teach pendant stand**
 - 7 **Teach Pendant**
ERP400 / ERP400S
 - 8 **Base fixtures**
 - 9 **EOAT**
Single/dual vacuum cups
 - 10 **Safety scanners**
Reduced mode and safety stop
 - 11 **Cable management system**
- Standard
● Optional

Additional optional accessories are available



Fast Setup. Zero Programming

The palletizing wizard embedded in the Elite Robots proprietary software makes the **user interface** very **intuitive and easy to use**. Fast setup in just 4 steps and under 10 minutes, with **no programming required**. Settings can also be imported from other palletizing software. Redeployment in less than 10 minutes, making it perfect for small-scale palletization applications and repetitive processes. Single and double track palletizing are both supported.

Pallet/Box parameter settings

Automatic optimal pattern configuration

Manual configuration of palletizing pattern

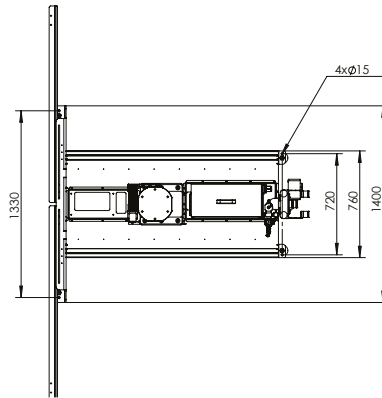
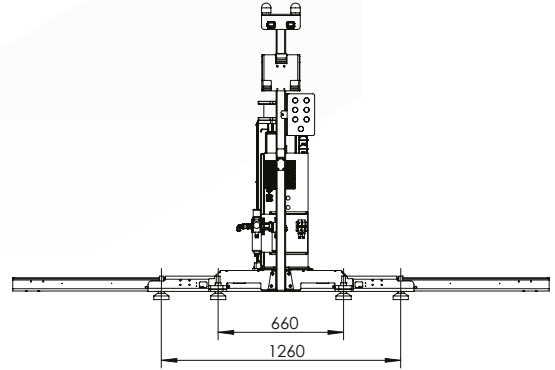
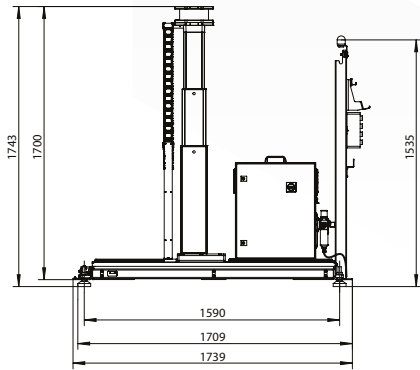
3D real-time preview of the palletizing pattern

Easy switch between different palletizing patterns

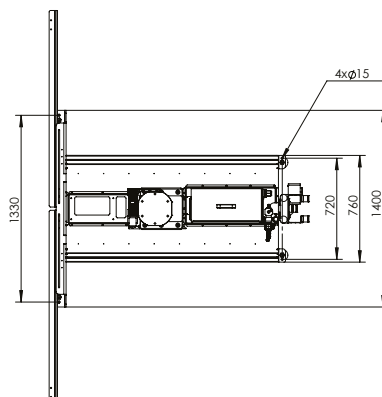
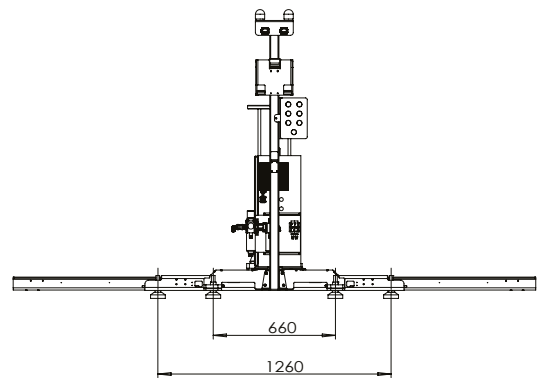
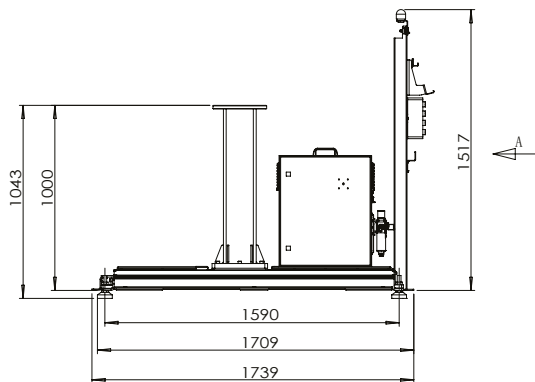
Real-time monitoring of palletizing process

Bases dimensions

CPL07



CPF10



Configurations Specs

BASE + COBOT		Payload	Radius	Max Pallet Size (W x L x H)	Weight
CPF10	CS620	20 kg	1800mm	1200 mm x 1200 mm x 1700 mm	410 kg
	CS625	25 kg	1500mm	1200 mm x 1000 mm x 1600 mm	408 kg
	CS530H	30 kg	1522 mm	1200 mm x 1000 mm x 1600 mm	380 kg
CPL07	CS620	20 kg	1800mm	1200 mm x 1200 mm x 2400 mm	410 kg
	CS625	25 kg	1500mm	1200 mm x 1000 mm x 2300 mm	408 kg
	CS530H	30 kg	1522 mm	1200 mm x 1000 mm x 2300 mm	380 kg

Common Specs

Max Speed	7boxes/min (single vacuum cup) / 14 boxes/min (dual vacuum cup)
Operating Temperature	0-50°C
Peak Power Consumption	2~3.5kW
Power Source	Single-phase 220VAC/110VAC 50~60Hz
Footprint	1400mm x 1700mm

Cobot Controller

Type	AC
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	1x RS485, 3x Ethernet, Modbus TCP/RTU, Ethernet/IP slave, Profinet slave
Size	505mm x 257mm x 462mm
IP Rating	IP44
Weight	16kg
Power source	100-240 VAC, 50-60 Hz
Operating Temperature	0~50°C

Teach Pendants

	ERP400	ERP400S
Size	301mm x 232mm x 54mm	301mm x 232mm x 105mm
Screen size	12.1"	
Resolution	1280 x 800 pixels	
IP rating	IP54	
Weight	1.7 kg	1.8 kg
Cable length	5.5 m	
Temperature range	0~50°C	
Input method	Capacitive full touch-screen	Capacitive full touch-screen, 3-mode enable key, jogging-keys, function keys

 Elite Robots

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