



# 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.



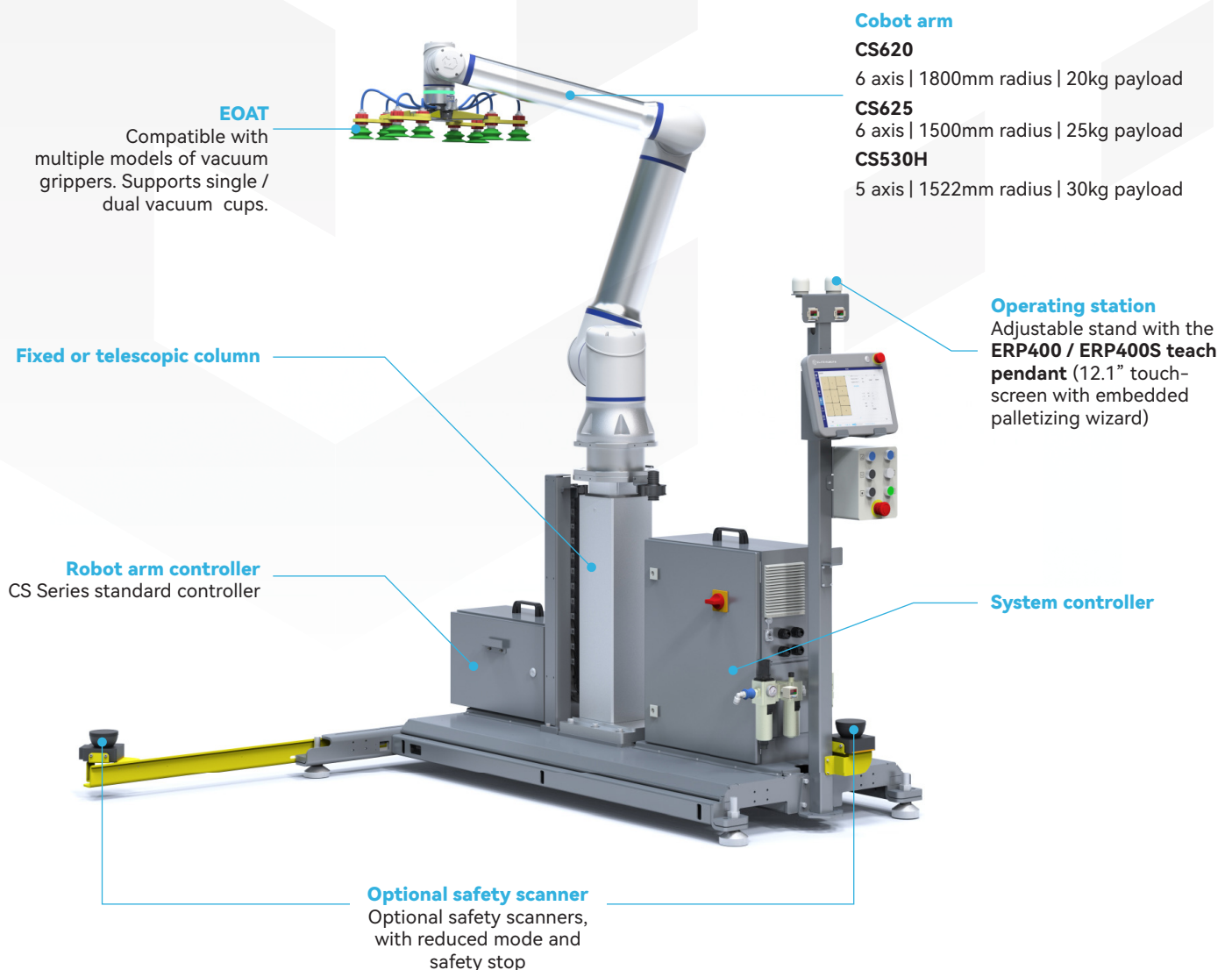
## User-friendly

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

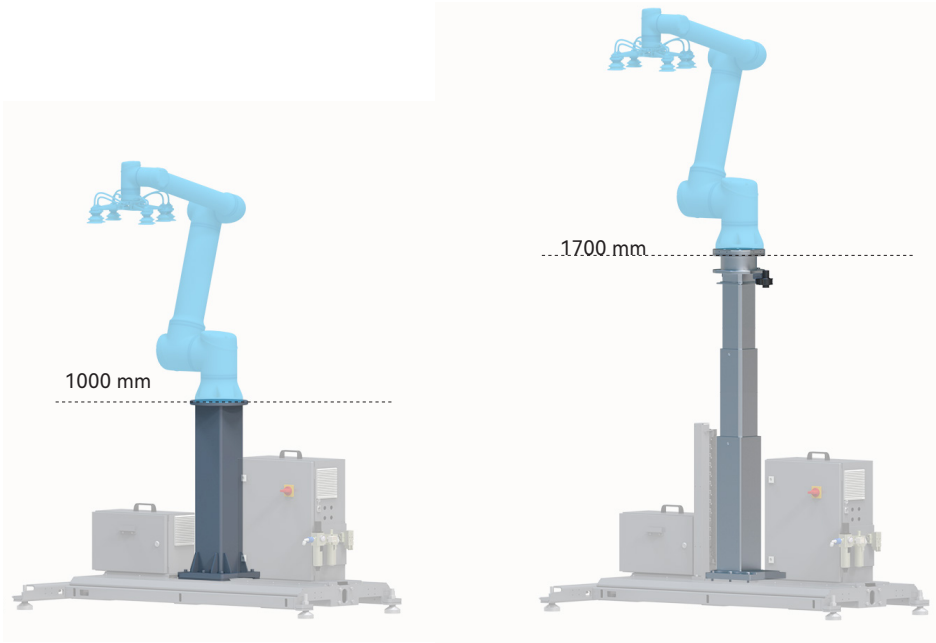


## Fast to deploy

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.



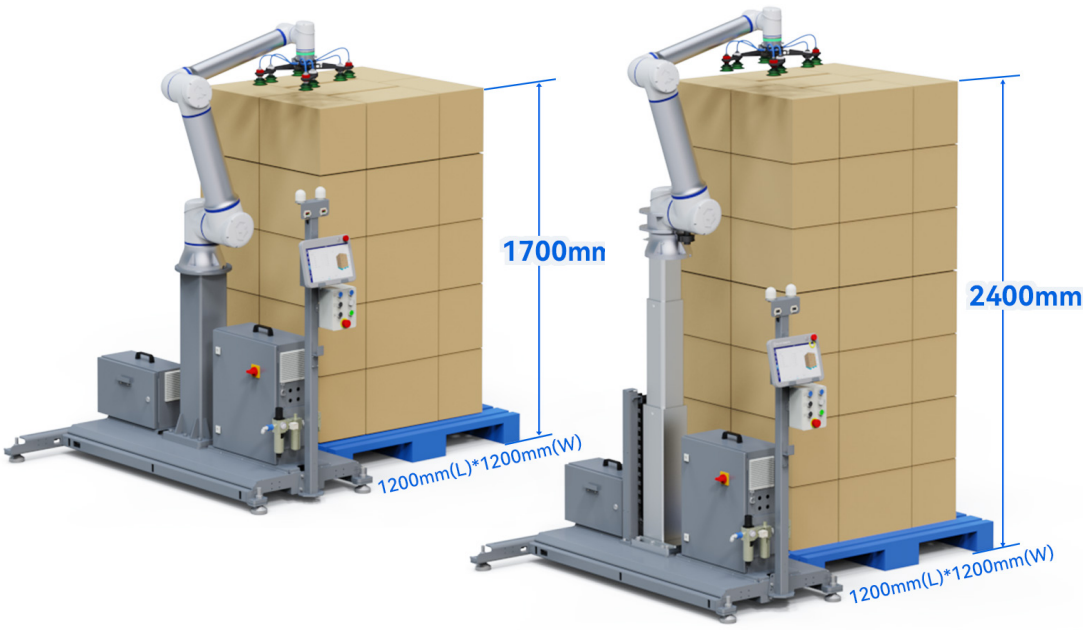
# Fixed or telescopic column



	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

# Empower your end-of-line operations

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.



- 1200mm Max pallet Size**  
Up to 1200mm (L/W) with the CS620 cobot arm
- High stacking capacity**  
2400mm (CPL07) / 1700mm (CPF10)
- Up to 14 boxes/min**  
with dual vacuum-cups mode ▼





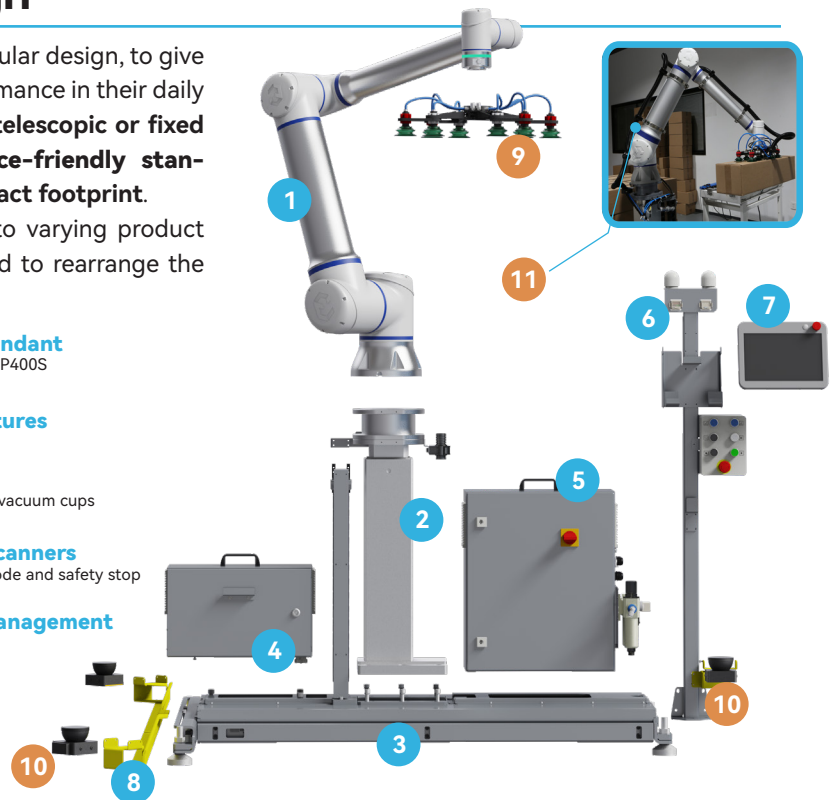
## Efficient modular design

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.

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

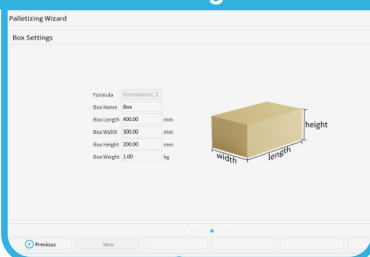
Additional optional accessories are available



## Quick 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.

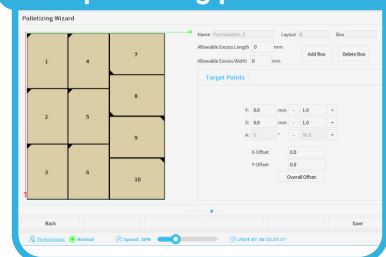
### Pallet/Box parameter settings



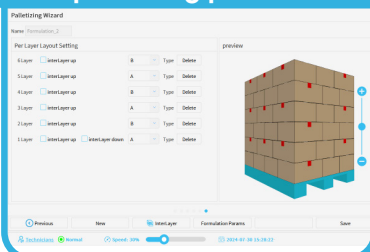
### Automatic optimal pattern configuration



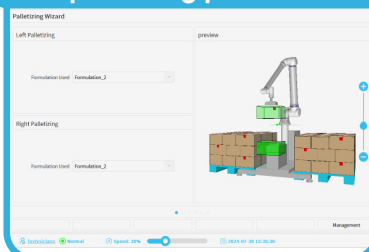
### Manual configuration of palletizing pattern



### 3D real-time preview of the palletizing pattern



### Easy switch between different palletizing patterns

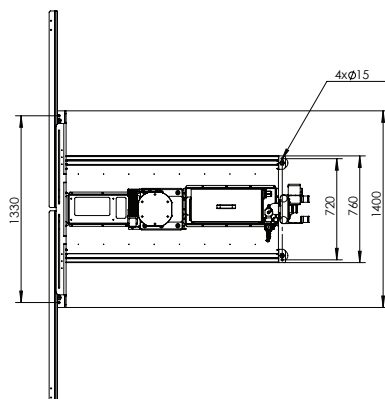
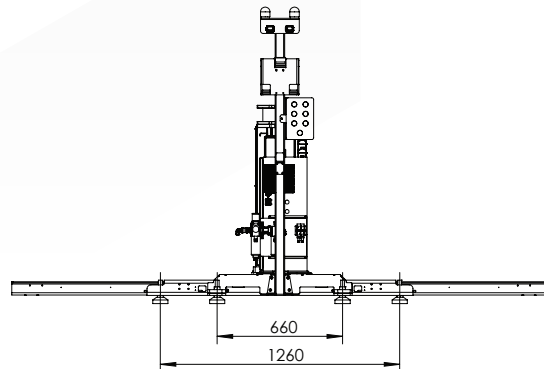
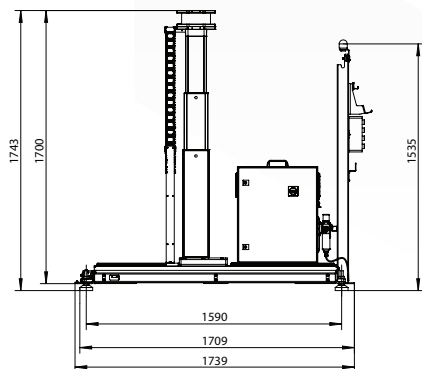


### Real-time monitoring of palletizing process

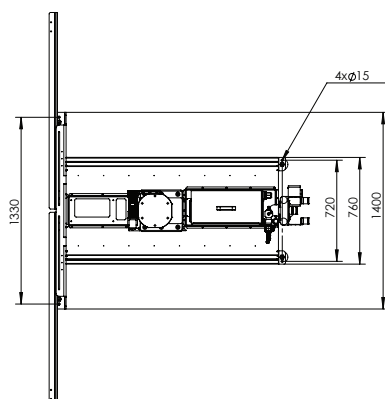
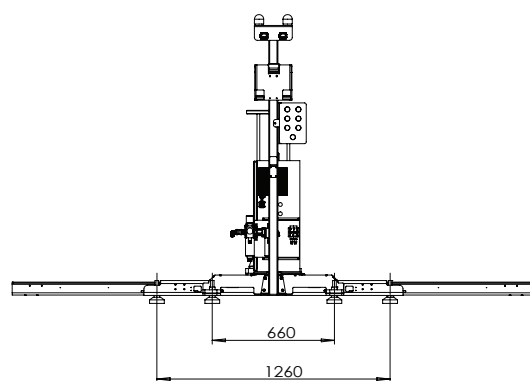
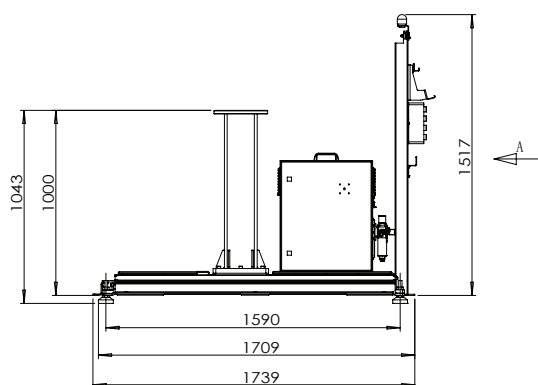


## Bases dimensions

### CPL07



### CPF10



## Configurations Specs

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

## Common Specs

Max Speed	7 boxes/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 touch-screen	Capacitive touch-screen, 3-mode enable key, jogging-keys, function keys