



ELITE ROBOTS



# CP SERIES

## TURNKEY MODULAR PALLETIZER

[www.eliterobots.com](http://www.eliterobots.com)

## 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.



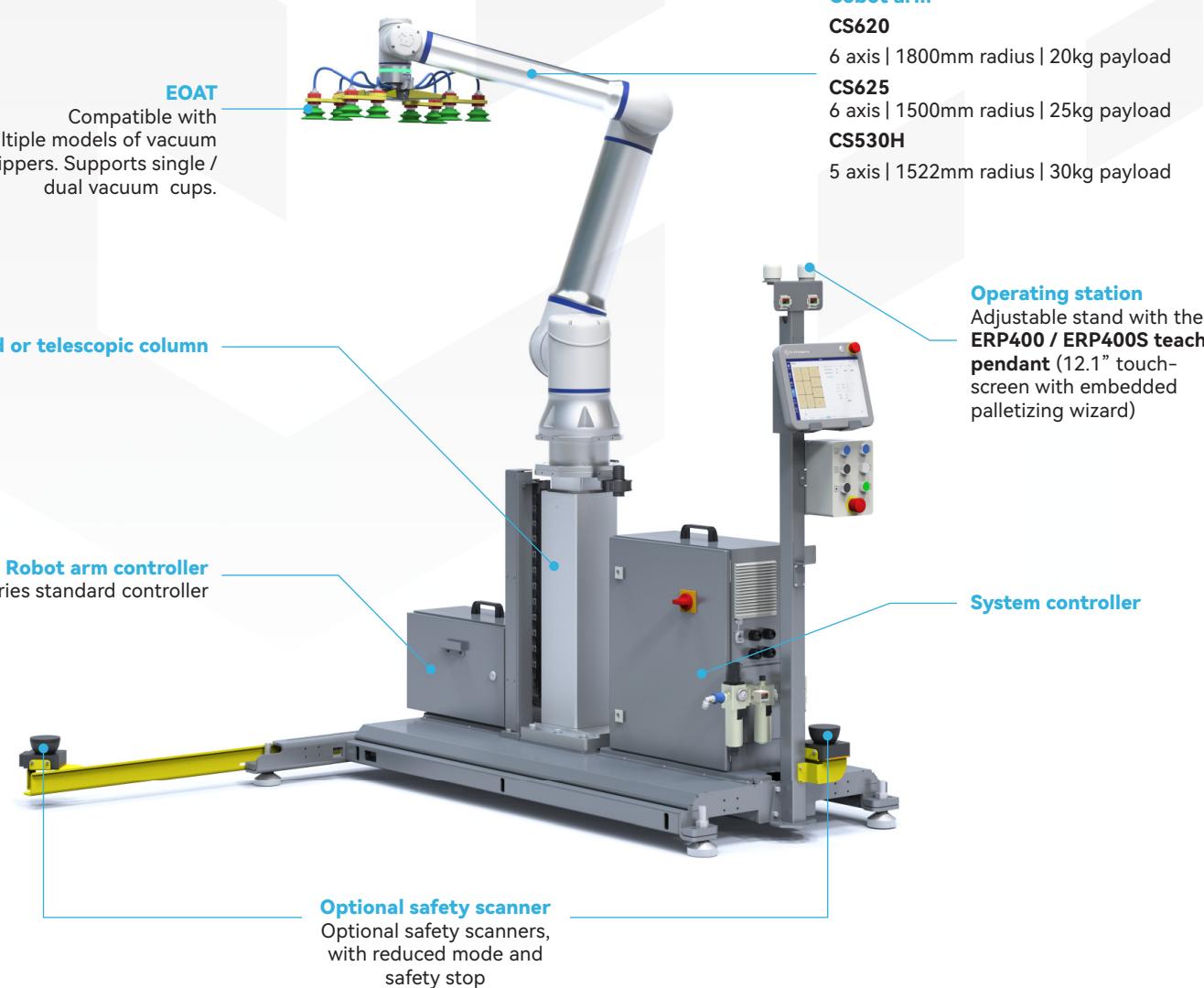
### User-friendly

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

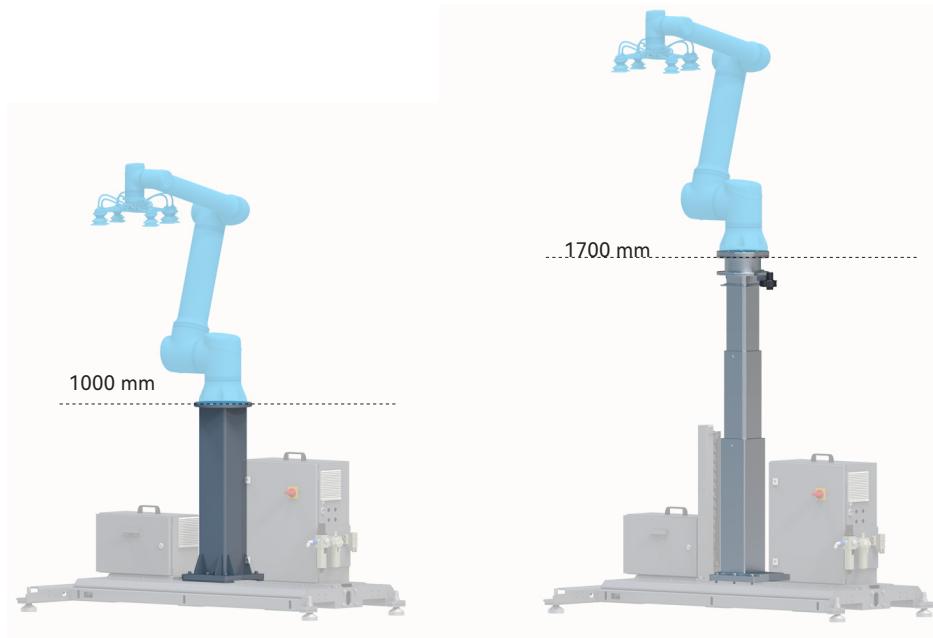


### Fast to deploy

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**

<b>CS620</b>	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
<b>CS625</b>	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
<b>CS530H</b>	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.



## 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**.

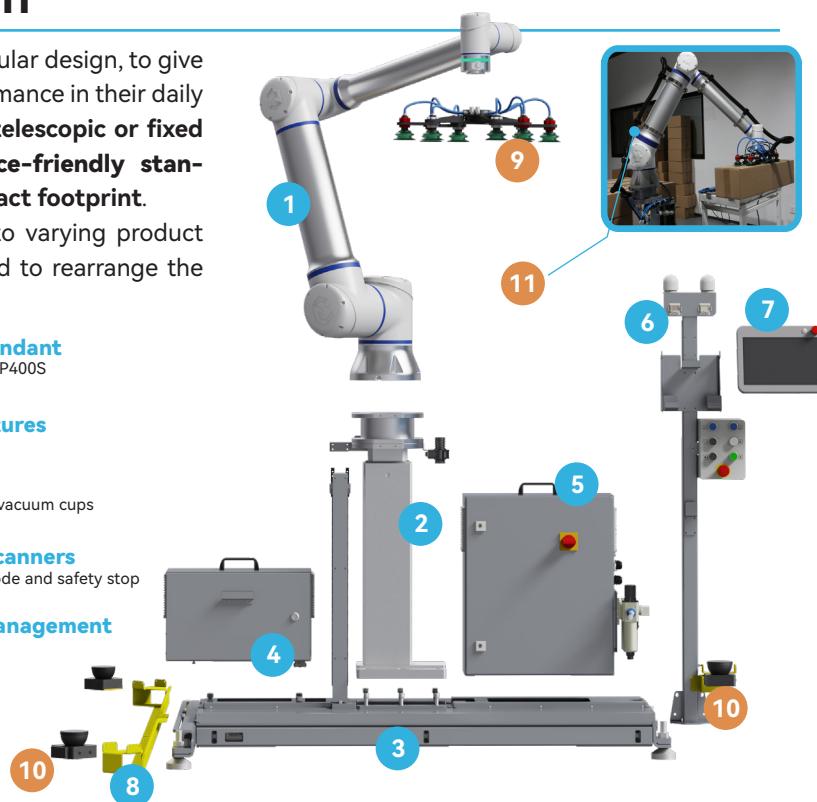
This makes the CP Series easily adaptable to varying product dimensions and pallet patterns, with no need to rearrange the facility layout.

- 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

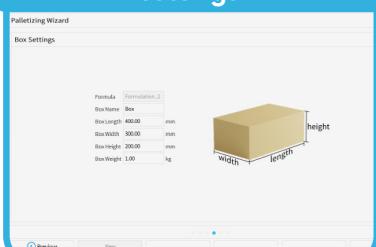
Additional optional accessories are available



## 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.

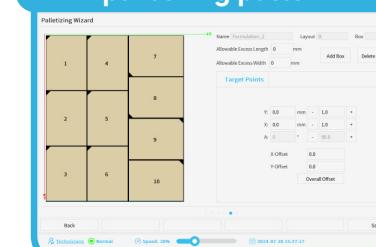
**Pallet/Box parameter settings**



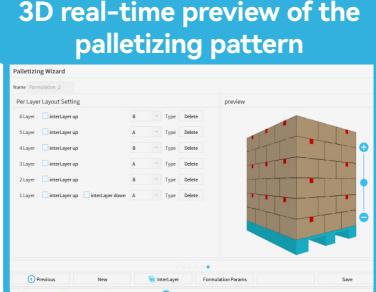
**Automatic optimal pattern configuration**



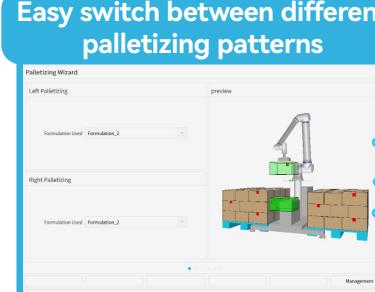
**Manual configuration of palletizing pattern**



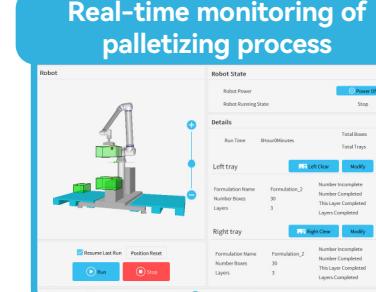
**3D real-time preview of the palletizing pattern**



**Easy switch between different palletizing patterns**

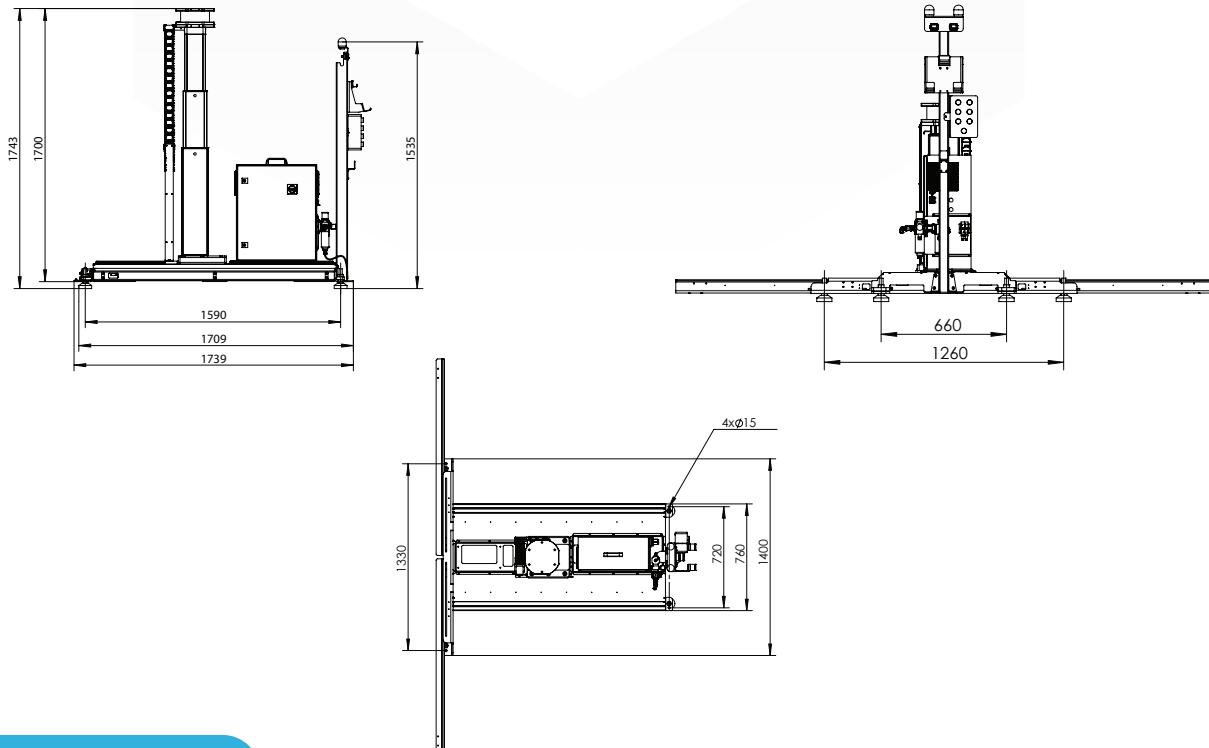


**Real-time monitoring of palletizing process**

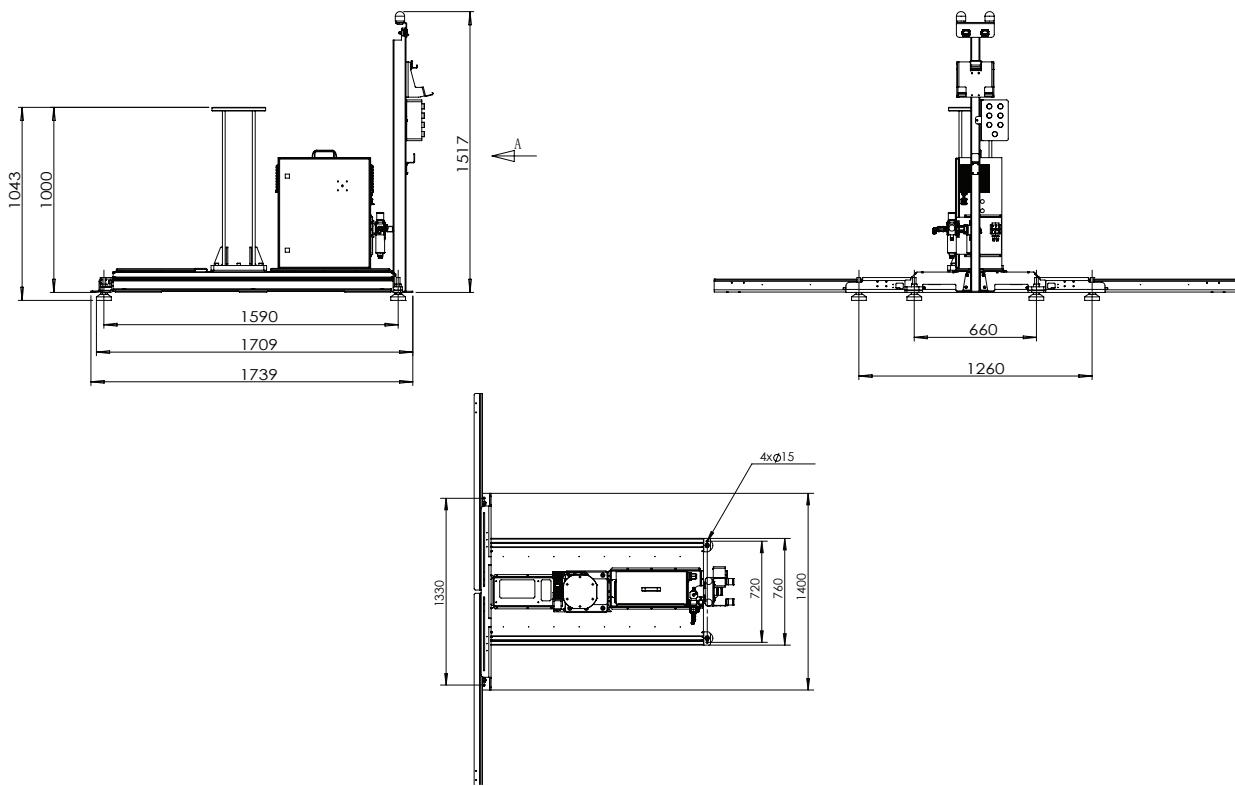


## Bases dimensions

**CPL07**



**CPF10**



## Configurations Specs

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

## Common Specs

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

## Cobot Controller

<b>Type</b>	AC
<b>I/O ports</b>	24 DI, 24 DO (8 safety config. DI/DO); 2 AI, 2 AO; 4 High-Speed DI
<b>I/O power supply</b>	24V/3A (internal), 6A (external)
<b>Communication</b>	1x RS485, 3x Ethernet, Modbus TCP/RTU, Ethernet/IP slave, Profinet slave
<b>Size</b>	505mm x 257mm x462mm
<b>IP Rating</b>	IP44
<b>Weight</b>	16kg
<b>Power source</b>	100~240 VAC, 50~60 Hz
<b>Operating Temperature</b>	0~50°C

## Teach Pendants

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