ELITE ROBOTS

Optamate

# CPS SERIES
## COMPLETE PALLETIZING STATION

# Optamate

# The modular palletizer cell for all stacking tasks

**Cobot arms**

CS520H: 5-axis | 2000mm radius | 20kg payload
CS530H: 5-axis | 1522mm radius | 30kg payload
CS620: 6-axis | 1800mm radius | 20kg payload
CS625: 6-axis | 1500mm radius | 25kg payload

**EOAT**

Compatible with multiple models of vacuum grippers

**Ergonomic operator station**

Adjustable panel with the ERP400S teach pendant, featuring a 12.1-inch large screen with graphical programming. Embedded palletizing wizard

**3 Base types**

Fixed – 1580mm height
Fixed – 1000mm height
With lifting column

**Robot arm controller**

CS Series standard controller

**System controller**

Standalone electric controller, easy to maintain and highly expandable

**Additional safety**

Optional safety scanners, with reduced mode and safety stops

## Modular

Supports multiple configurations of columns and robot arms to cover different pallet sizes and stack heights

## Safety

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

## Efficient and cost-effective

Handling pallets up to 1400mm × 1400mm width, with stacking heights up to 2.6m, for a wide range of scenarios. Palletizing speed up to 9 boxes per minute, equivalent to the workload of approximately 4 workers, with a payback period starting from 6 months

## Fast deploy and redeploy

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

## Maintenance-friendly

Modular design of key components, service-friendly design with standalone robot and system controller, minimizes maintenance costs and downtime

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# Palletizing software

Elite Robots' proprietary palletizing software offers seamless flexibility and swift installation, making the robot exceptionally user-friendly. This simplifies operations for your team while ensuring you receive the most efficient palletizing solution possible.



**Pallet/Box parameter settings**

**Automatic optimal pattern configuration**
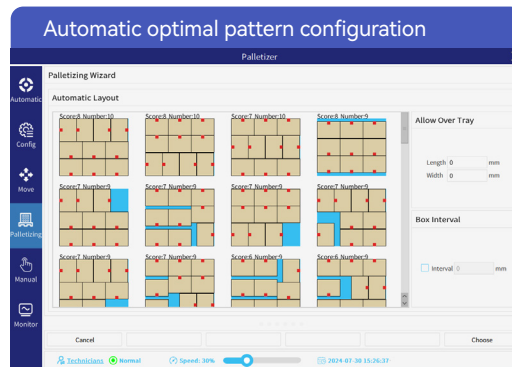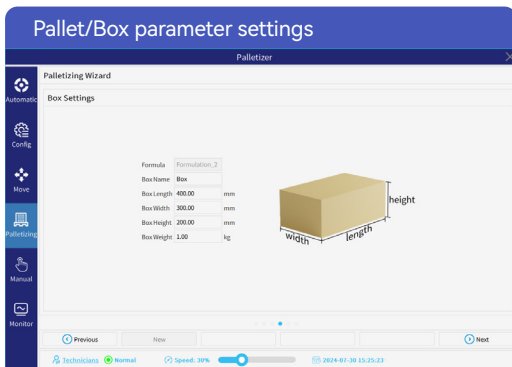
## Safe operations

Real-time monitoring and 3D visualization of palletizing tasks

**Manual configuration of palletizing pattern**

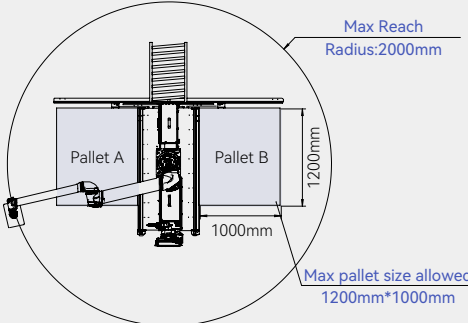**3D real-time preview of the palletizing pattern**
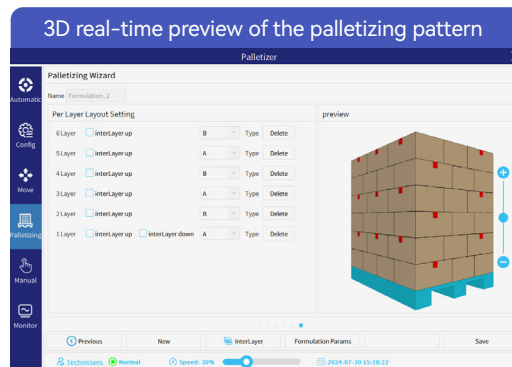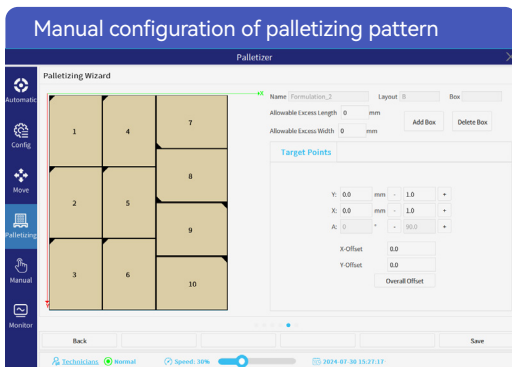
## Automatic layout
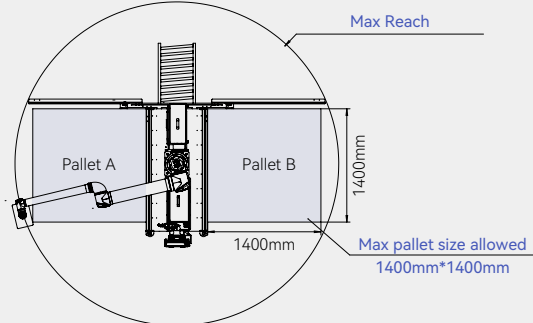
Supports both automatic and manual configuration of palletizing pattern. External patterns can also be imported

**Easy switch between different palletizing patterns**

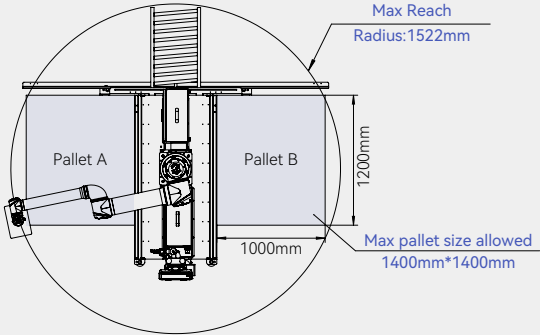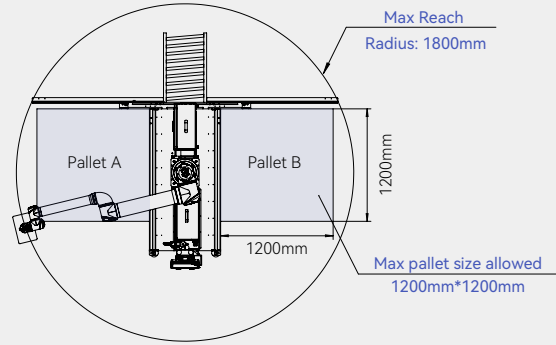**Real-time monitoring of palletizing process**
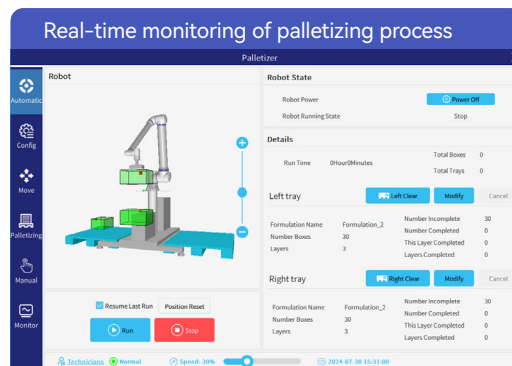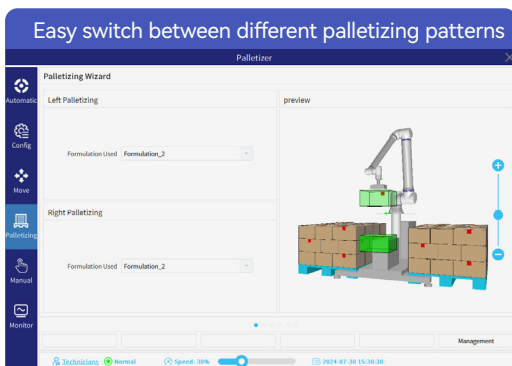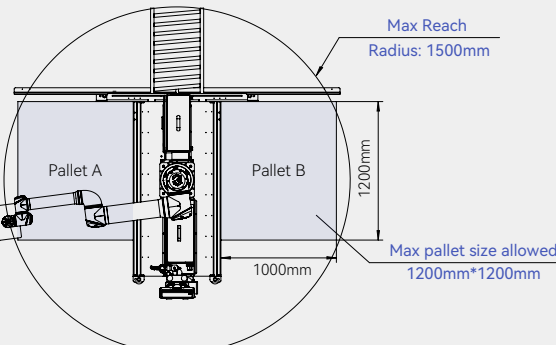
## Palletizing wizard

Intuitive and user-friendly interface for fast setup and no programming required. Settings can also be imported from other palletizing softwares

# System Specs

| | CPF16-CS520H | CPF10-CS520H | CPL07-CS520H |
|---|---|---|---|
| Payload | 20kg | | |
| Radius | 2000mm | | |
| |  |  | |
| Max Stack Height | 2350mm | 1600mm | 2300mm |
| Max Speed | 9 pcs/min | | |
| Communication | 3 Ethernet，1 RS485；TCP/IP，MODBUS TCP/RTU，EtherNet/IP，Profinet | | |
| Operating Temperature | 0-50℃ | | |
| Peak Power Consumption | 2kW | 2kW | 3.5kW |
| Power Source | Single-phase 220VAC/110VAC，50~60Hz | | |
| Weight | ≈430kg | ≈410kg | ≈430kg |
| Footprint | 1400mm x 1700mm | | |

| | CPF10-CS530H | CPL07-CS530H |
|---|---|---|
| Payload | 30kg | |
| Radius | 1522mm | |
| Pallet Specifications |  | |
| Max Stack Height | 1600mm | 2300mm |
| Max Speed | 9 pcs/min | |
| Communication | 3 Ethernet，1 RS485；TCP/IP，MODBUS TCP/RTU，EtherNet/IP，Profinet | |
| Operating Temperature | 0-50℃ | |
| Peak Power Consumption | 2kW | 3.5kW |
| Power Source | Single-phase 220VAC/110VAC，50~60Hz | |
| Weight | ≈410kg | ≈430kg |
| Footprint | 1400mm x 1700mm | |

| | CPF10-CS620 | CPL07-CS620 |
|---|---|---|
| Payload | 20kg | |
| Radius | 1800mm | |
| Pallet Specifications |  Max Reach Radius: 1800mm — Pallet A — Pallet B — 1200mm — 1200mm — Max pallet size allowed 1200mm*1200mm | |
| Max Stack Height | 1700mm | 2400mm |
| Max Speed | 9 pcs/min | |
| Communication | 3 Ethernet，1 RS485；TCP/IP，MODBUS TCP/RTU，EtherNet/IP，Profinet | |
| Operating Temperature | 0-50℃ | |
| Peak Power Consumption | 2kW | 3.5kW |
| Power Source | Single-phase 220VAC/110VAC，50~60Hz | |
| Weight | ≈410kg | ≈430kg |
| Footprint | 1400mm x 1700mm | |

| | CPF10-CS625 | CPL07-CS625 |
|---|---|---|
| Payload | 25kg | |
| Radius | 1500mm | |
| Pallet Specifications |  Max Reach Radius: 1500mm — Pallet A — Pallet B — 1200mm — 1000mm — Max pallet size allowed 1200mm*1200mm | |
| Max Stack Height | 1600mm | 2300mm |
| Max Speed | 9 pcs/min | |
| Communication | 3 Ethernet，1 RS485；TCP/IP，MODBUS，TCP/RTU，EtherNet/IP，Profinet | |
| Operating Temperature | 0-50℃ | |
| Peak Power Consumption | 2kW | 3.5kW |
| Power Source | Single-phase 220VAC/110VAC，50~60Hz | |
| Weight | ≈410kg | ≈430kg |
| Footprint | 1400mm x 1700mm | |

# Track record across industries

Elite Robots offers a wide selection of robotic arms with payloads up to 25 kilograms and wide flexibility at the deployment level (single robotic arm integration and static and mobile all-in-one solutions with AGVs) for a wide variety of palletizing applications.

Over the years, its collaborative robots have been successfully used to perform palletizing tasks across a variety of industries: food and beverage, household products, e-commerce, chemical industry, and more.


Household cleaning industry


Household cleaning industry
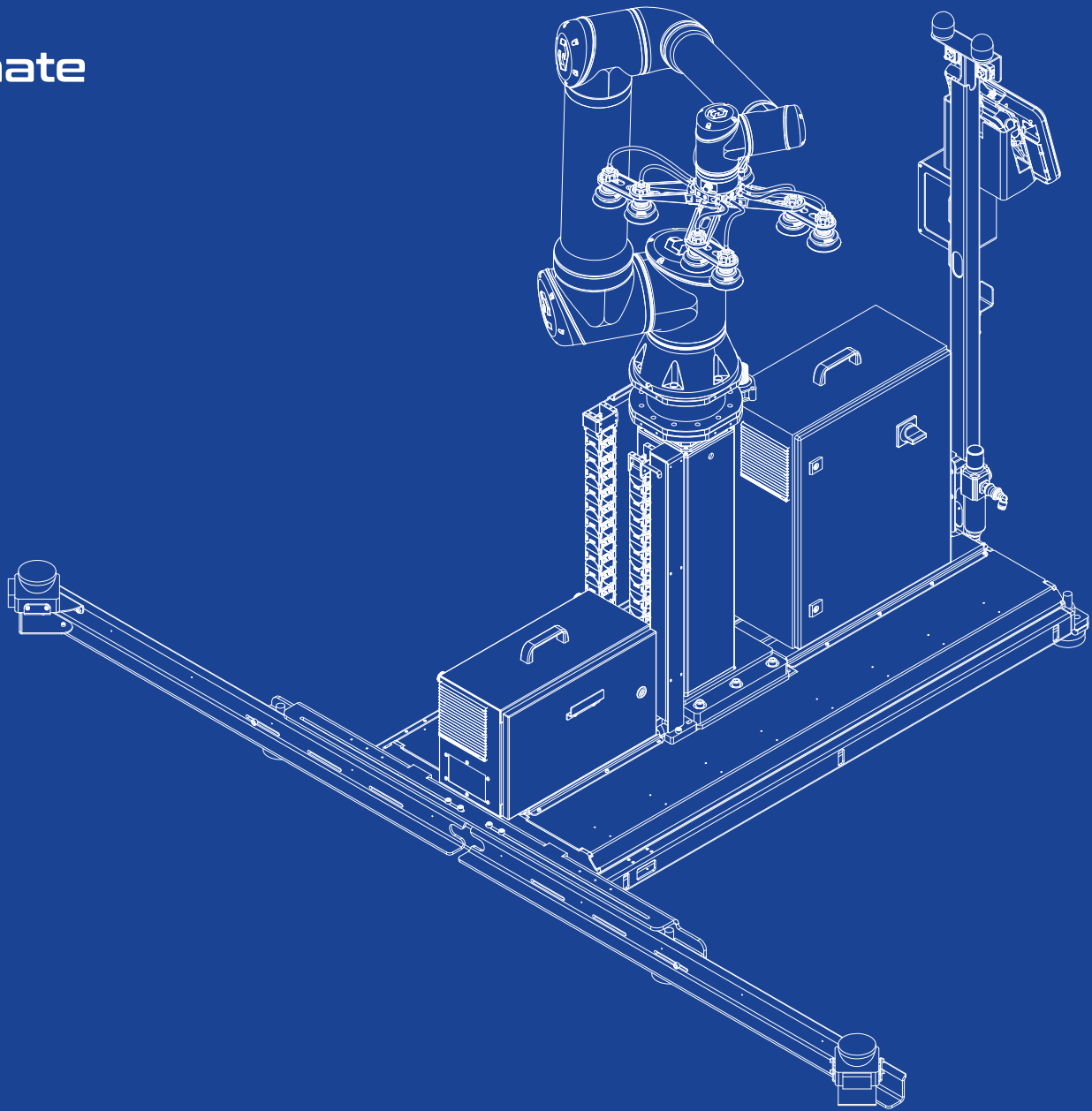

Home appliance industry


Food & beverage industry


Household paper industry


E-commerce warehousing industry

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