

# JAKA

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## JAKA Collaborative Robot Palletizing Solution

JAKA Robotics Co., Ltd.



#### Safe collaboration and collision protection

With a built-in torque feedback module, the robot stops at preset collision limits to protect personnel and equipment, ensuring safe collaboration. Certified under ISO 10218-1, ISO 13849-1, IEC 60204-1, and ISO 12100, ensuring safety and reliability.

#### Quick Switching

Modular, plug-and-play design enables quick setup and easy adaptation for multi-product production, removing line change hassles.

#### Fast Teaching for Easy Operation

With JAKA's palletizing program, guided 3-step setup enables production without programming.

#### Plug-and-Play

One-stop collaborative robot palletizing solution, ready to use and deploy quickly. Control multiple robots and send commands remotely via mobile terminal.

#### High Payload High Throughput

The JAKA palletizing workstation handles up to 20 kg, stacks 10 boxes per minute, and reaches heights of 2300 mm, meeting industry-leading standards for food and consumer goods.

#### Quick ROI

Key components are 100% self-developed, ensuring ease of use, low maintenance, and ROI within 6-12 months.

## Comprehensive Industry Coverage

With a wealth of case studies, JAKA's solutions meet the needs of various application scenarios.





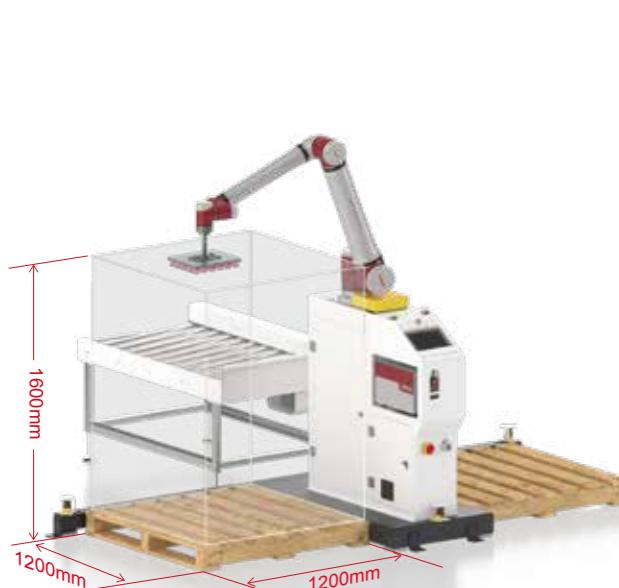
# Product Selection Guide



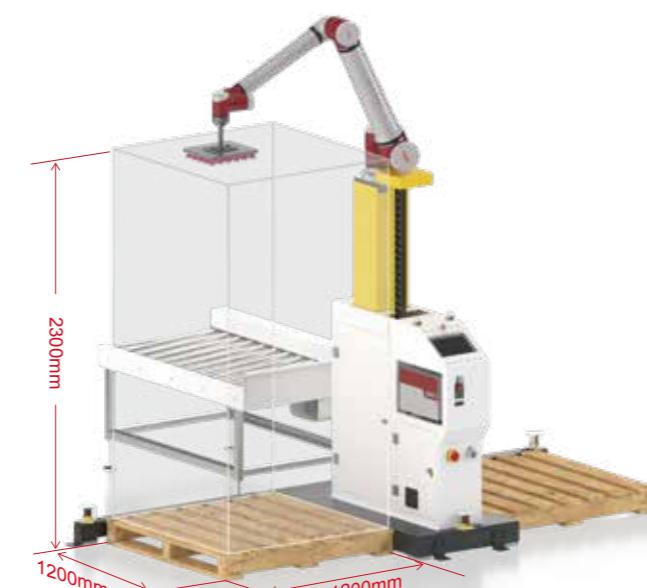
# Collaborative Robot Palletizing Station Specifications

## Palletizing station technical parameters

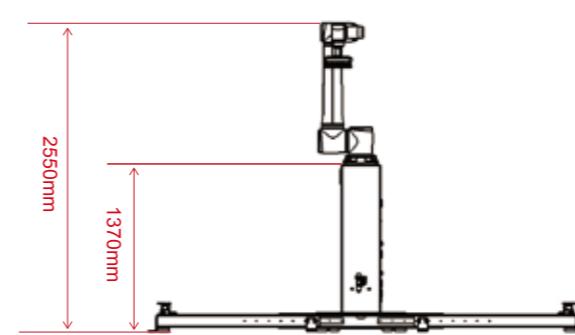
|                                       |   |
|---------------------------------------|---|
| Robot Payload                         | 20kg  |
| Box Weight Capacity                   | ≤16kg   |
| Working Radius                        | 1780mm  |
| Max Stacking Speed                    | ≤8 boxes/min (varies with box type and weight)  |
| Repeat Positioning Accuracy           | ±0.05mm   |
| Standard Lifting Column Stroke        | 800mm   |
| Stacking Height (no lifting column)   | 1600 mm (for 1.2m x 1.2m pallet)  |
| Stacking Height (with lifting column) | 2300 mm (for 1.2m x 1.2m pallet)  |
| Control Cabinet I/O Ports             | 16 digital inputs, 16 digital outputs, 2 analog inputs/outputs  |
| Communication Protocols               | TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP   |
| Air Pressure Requirement              | 0.4~0.7MPa  |
| Power Supply                          | Single-phase 100-250 VAC, 50-60Hz (When selecting the JAKA standard palletizing liftin, the power supply is single-phase 200VAC to 240VAC, -10% to +10%, 50Hz/60Hz) |
| Average Power Consumption             | 750W  |
| Total Weight                          | 490kg   |



Column-Type Palletizing Height Diagram



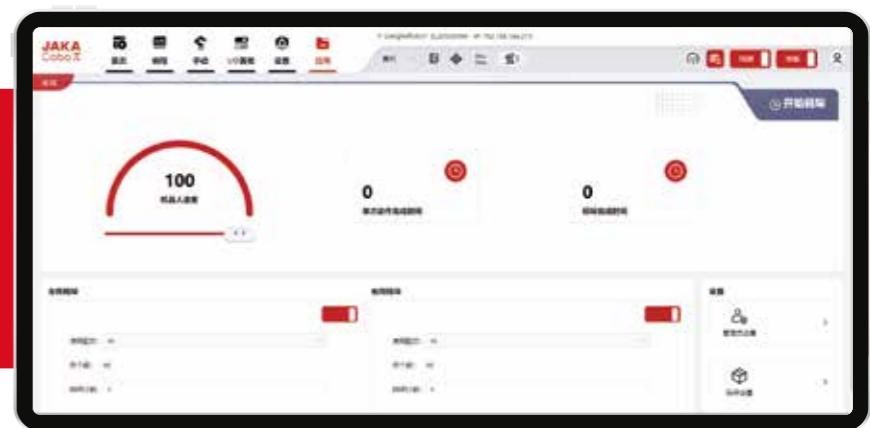
Lifting-Type Palletizing Height Diagram



Palletizing station plan

## Home Panel

Clear and Intuitive,  
Everything at Your Fingertips



## 3-step guided setup of New Stacking Patterns

1 Set Carton Size Parameters

2 Set Pallet Size Parameters

3 One-Click Stack Pattern Generation

