

**JAKA**

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**JAKA**



# JAKA Collaborative Robot Palletizing Solution

JAKA Robotics Co., Ltd.

1  
Operator

1 Minute  
Setup

0  
Barriers



#### 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

**Suction Cups**

**Option 1**  
350\*300 Octopus Sucker

**Option 2**  
Customization

**JAKA Zu 20 collaborative robot**

**Standard**  
End load 20 kg , arm span 1780 mm

**Conveyor Line**

**Optional**  
1.5 m inclined roller conveyor

**Standard palletizing frame**

**Standard**  
Base with forklift holes;  
The cabinet is fully equipped with electric controls and sensors

**Column Options**

**Option 1**  
Fixed square welded column  
max stacking height of 1600mm

**Option 2**  
JAKA standard palletizing lifting column  
stroke of 800mm, max stacking height of 2300mm

**Option 3**  
LINAK or EWELLIX lifting columns

**Human-Machine Interface (HMI)**

**Option 1**  
Pad + button supports wireless connectivity  
multiple robots can share a single PAD

**Option 2**  
10.1-inch HD screen + button

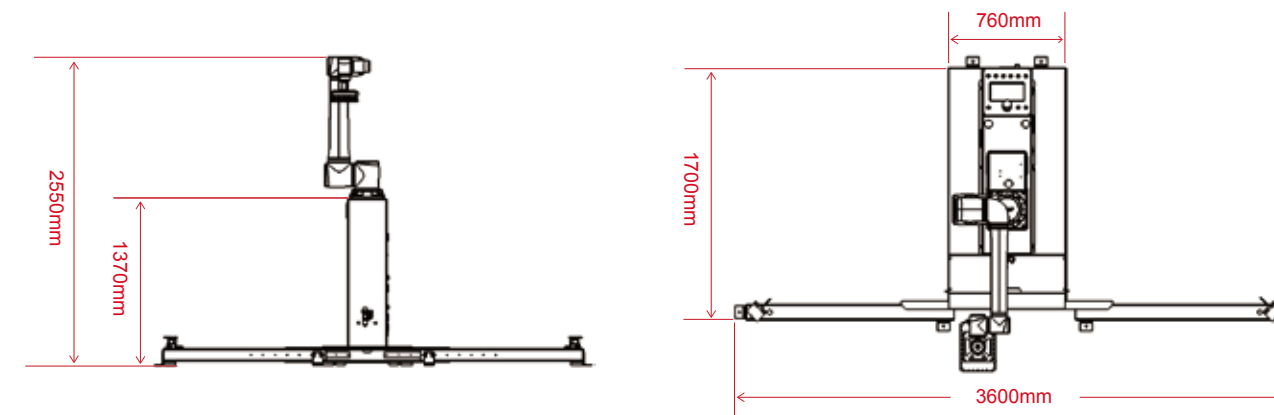
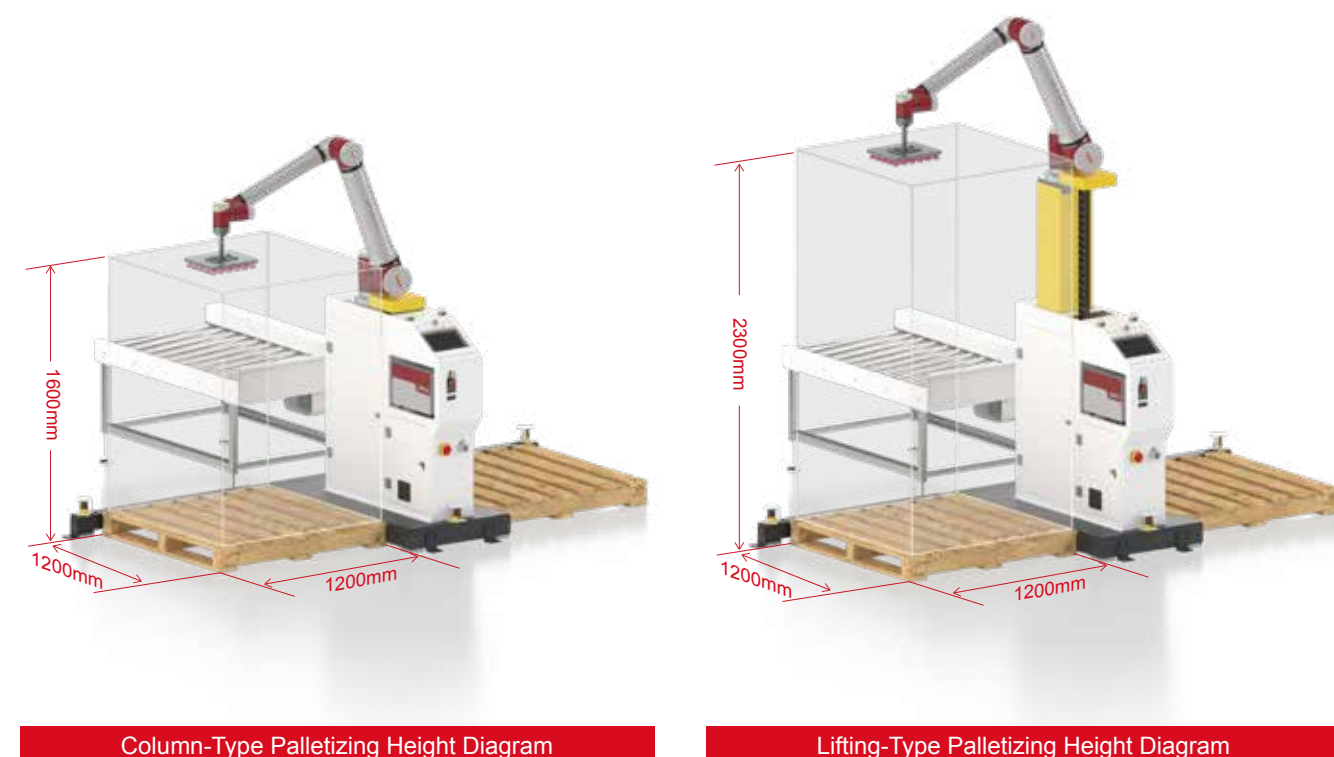
**Safety Strategy**

**Optional**  
LiDAR solution with full protection range coverage  
supporting primary and secondary deceleration settings

# Collaborative Robot Palletizing Station Specifications

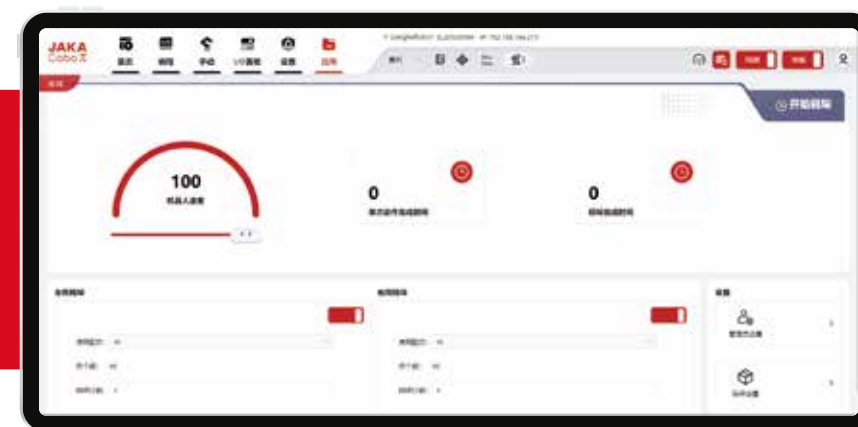
## Palletizing station technical parameters

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 lifftin,the power supply is single-phase 200VAC to 240VAC, -10% to +10%, 50Hz/60Hz)
Average Power Consumption	750W
Total Weight	490kg



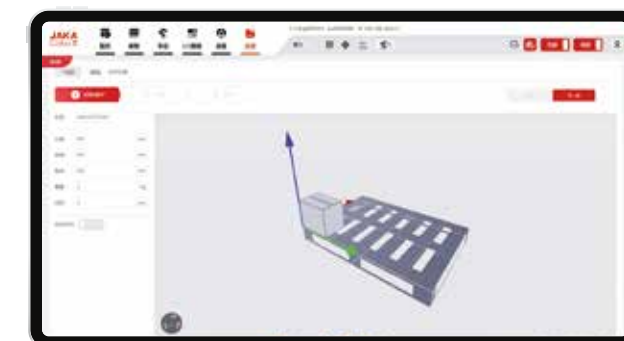
Palletizing station plan

**Home Panel**  
Clear and Intuitive,  
Everything at Your Fingertips

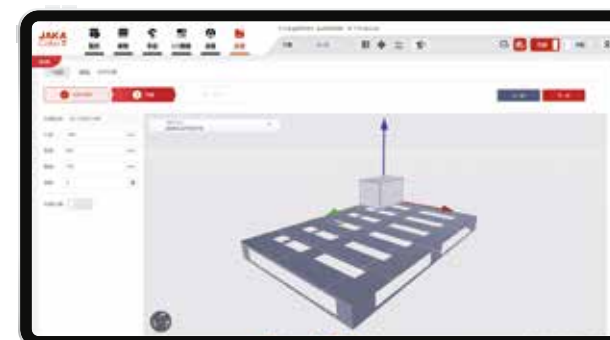


## 3-step guided setup of New Stacking Patterns

1 Set Carton Size Parameters



2 Set Pallet Size Parameters



3 One-Click Stack Pattern Generation

