



UNIVERSAL SYSTEMS

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.

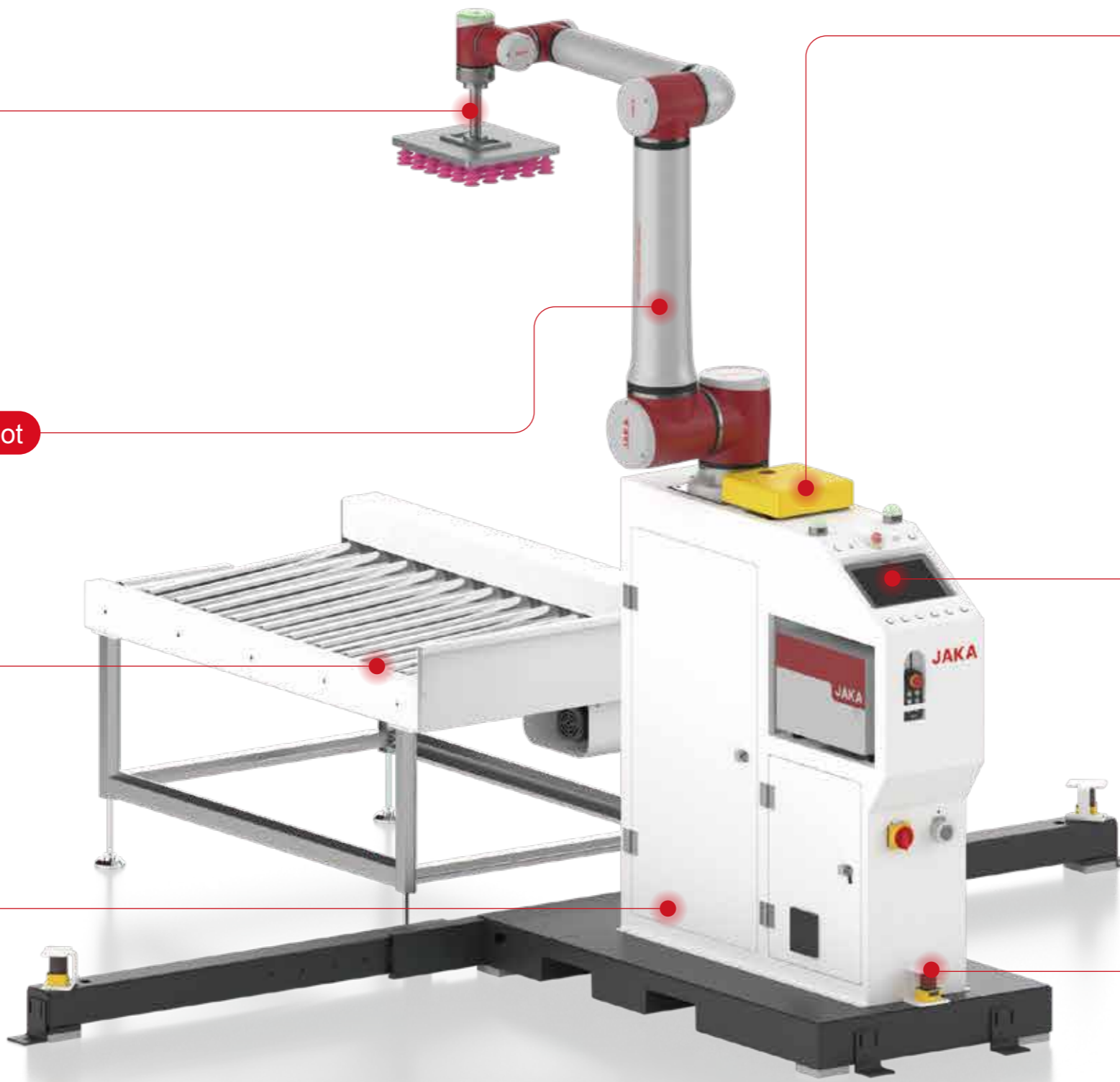
Quick ROI

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.





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

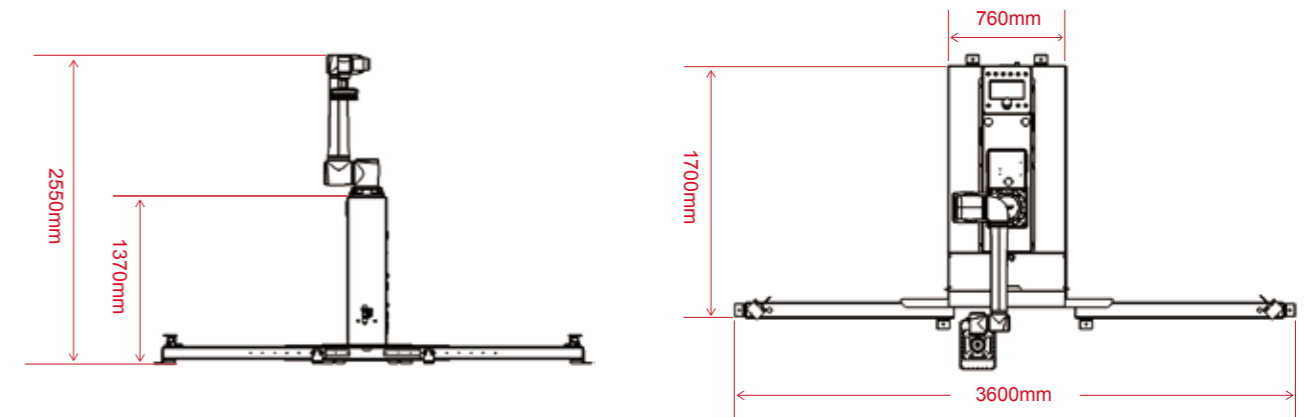
Safety Strategy

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

Collaborative Robot Palletizing Station Specifications

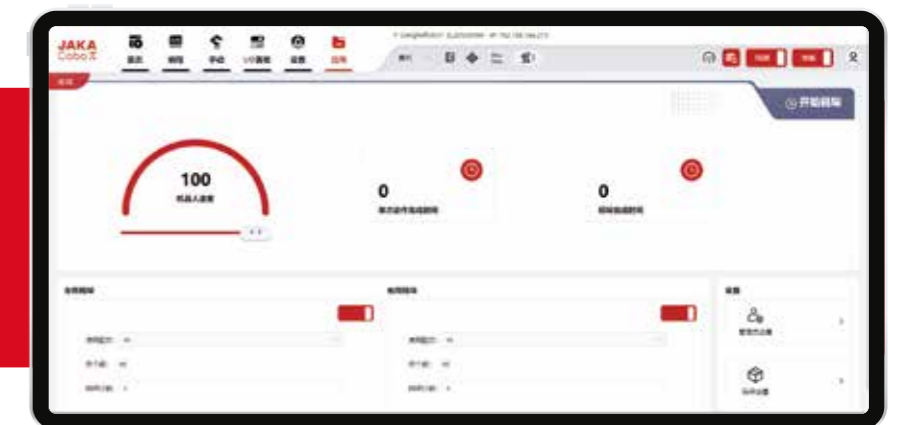
Palletizing station technical parameters

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 liftin, 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

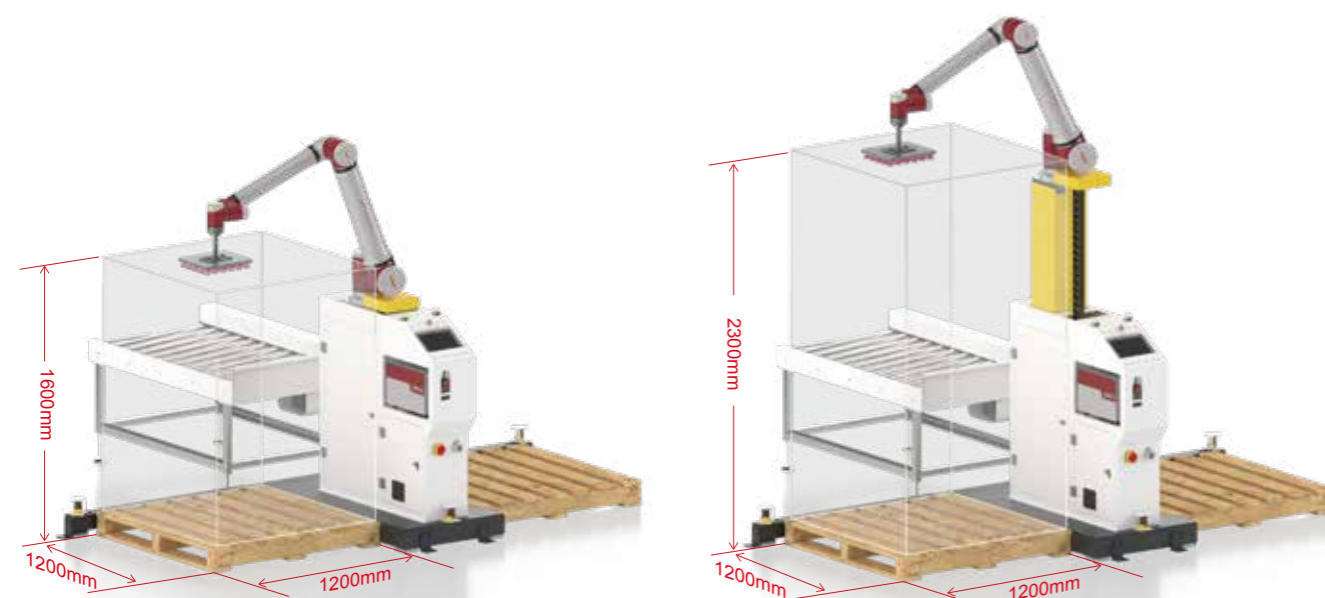
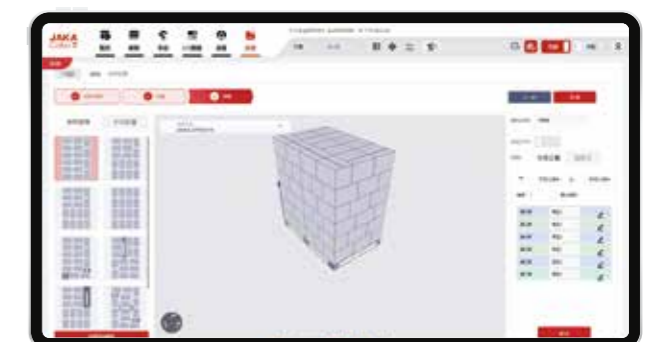
1 Set Carton Size Parameters



2 Set Pallet Size Parameters



3 One-Click Stack Pattern Generation



Column-Type Palletizing Height Diagram

Lifting-Type Palletizing Height Diagram