MAKE EVERY PALLETIZING SIMPLER

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ROBOT PHOENIX®

ROBOTPHOENIX

ALL-IN-1 PALLETIZING SOLUTION

Launching a new way of smart logistics

Plug & Play | Flexible | Compact | Easy to Use

Robotphoenix Intelligent Technology Co.,Ltd

PRODUCT OVERVIEW AND INDUSTRY PAIN POINTS

Redefining Collaborative Palletizing

Traditional palletizing equipment faces challenges such as complex deployment, difficult changeovers between product lines, large footprint, and high operational skill requirements.

Robotphoenix' s collaborative palletizing all-in-one machine integrates a collaborative robot, palletizing system, safety controls, and operation software into a single platform, delivering a ready-to-use intelligent palletizing solution.

No complex programming or production-line modifications required; it can be rapidly deployed and put into production.

Our Product Advantages

2-Hour Rapid Deployment
Plug-and-play ready—on-site installation and commissioning completed in about 2 hours.

Compact all-in-one design
Footprint as small as 1942 × 1525 mm

5-minute Quick Product Changeover
Formula-based management, no need to re-teach for new products

30-minute Quick Start
Graphical guided operation, reducing personnel training costs

Four major industry pain points

High cost, complex deployment
Traditional palletizing systems are complex, require high investment, and have long installation and commissioning cycles.

Slow production changeover, lack of flexibility
When faced with products of various specifications and varieties, traditional palletizing equipment requires re-teaching and re-adjustment.

Large equipment, high footprint
Traditional palletizing equipment requires a large installation space and has high requirements for factory layout.

Complex operation, high personnel requirements
Traditional robot systems are complex to program and require a high level of expertise from operators.

Robotphoenix Solution

Rapid Deployment
Integrated design enables quick setup and commissioning in approximately **2 hours**.

Fast Changeovers
Recipe management stores product and pallet patterns, with new-product changeovers typically completed in **5 minutes.**

Compact Footprint
A space-saving **1,942 × 1,525 mm** integrated structure makes efficient use of limited production space.

Easy Programming
Drag-and-drop graphical programming allows operators to configure tasks with minimal training, with no coding expertise required.

SPECIFICATIONS

A product matrix covering diverse payload requirements

From lightweight palletizing to high-payload industrial applications, AtomRobot offers a multi-tiered collaborative palletizing portfolio to meet the needs of different production lines.

A30 THE VERSATILE CHOICE

All-in-One Palletizing Robot

A30 Series	30 kg	General-purpose palletizing conditions
Product series	Rated load	Recommended applications

Efficient · Precise · Stable

Stable operation, designed for production efficiency

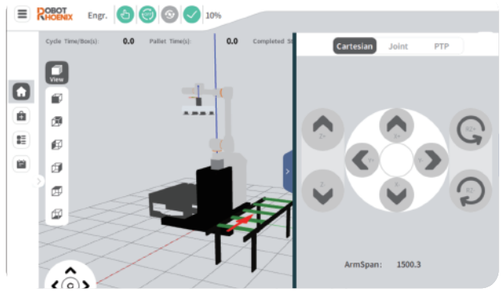
Parameters	A30
Rated Load	30 kg
Repeatability	⩽±0.1mm
Palletizing Speed	⩾8-12 boxes/minute (single suction)
Operating Temperature	0–45°C
Power Supply	Single-phase 220V/50-60Hz
Noise Level	Low-Noise Operation
MTBF	⩾30,000h

① 30kg rated load, achieving a good balance between working range and load capacity;

② Suitable for a variety of general working conditions;

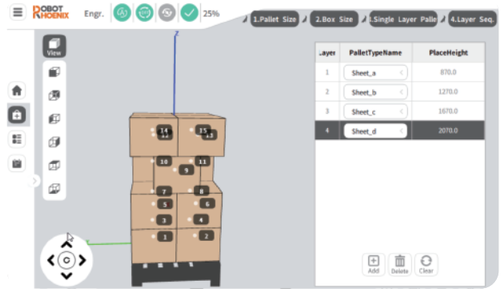
③ High-precision motion control combined with a reliable mechanical structure provides stable palletizing performance for continuous production.

SOFTWARE OPERATION EXPERIENCE



Clear main interface

Common functions are centrally arranged, information is clear at a glance, operation steps are reduced, and device usage efficiency is improved.



3D visualization debugging

Real-time visualization of the robot's 3D model and motion state, making the debugging process more intuitive.

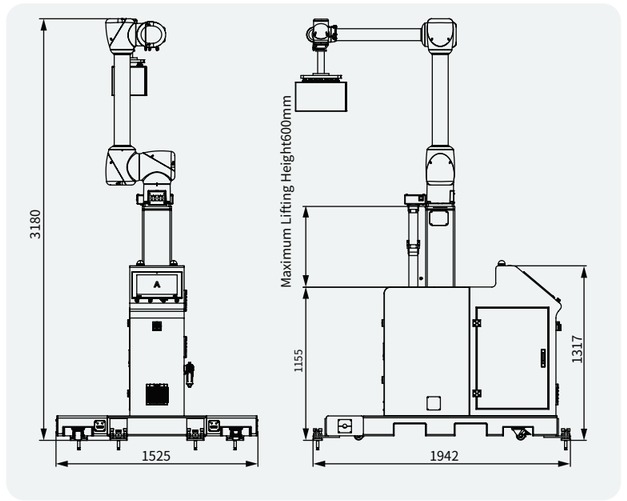
Control the robot like playing a game

Supports keyboard and mouse jog control, allowing operators to quickly master it without requiring a complex robot programming foundation.

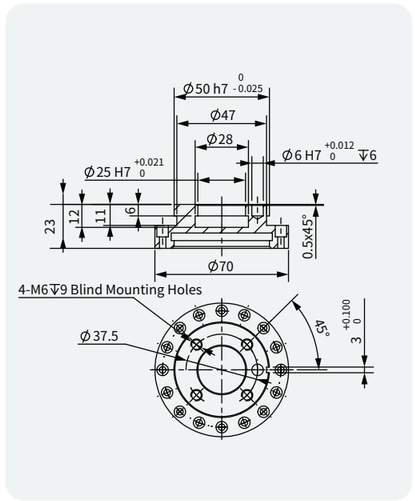
I/O status monitoring on a single screen

View real-time signal status of sensors, cylinders, and other devices to quickly identify anomalies and improve debugging efficiency.

Overall Dimensions (mm)



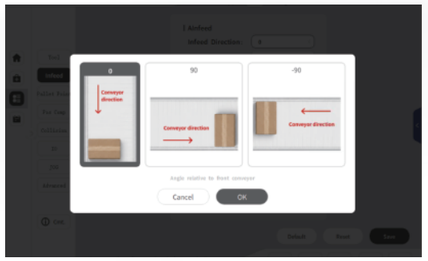
Suction Cup Mounting Flange Dimensions (mm)



SMART PALLETIZING RECIPE

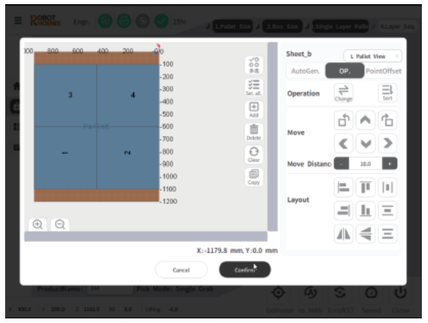
From “reprogramming” to “selecting the formula”

There is no need for repetitive and complex teaching when dealing with different products, different carton specifications, and different stacking types.



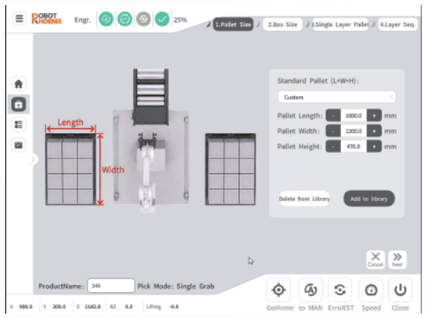
Flexible material feeding direction settings

Supports different conveyor belt feeding directions, reducing production line modifications.



Drag-and-Drop Pallet Pattern Editing

Drag and drop boxes in the graphical interface to complete single-layer pallet pattern design.**What You See Is What You Get.Quickly complete palletizing configuration.**

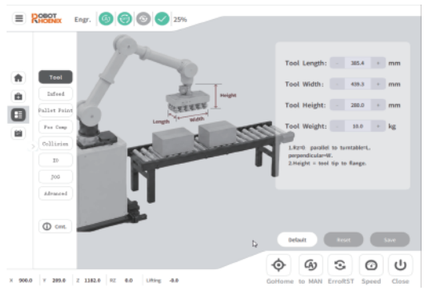


Recipe Management

Save palletizing parameters for different products, enabling direct recipe invocation during changeovers. **New product changeovers typically require only 5 minutes.**

FOUR CORE ADVANTAGES

01 EXCEPTIONAL USABILITY



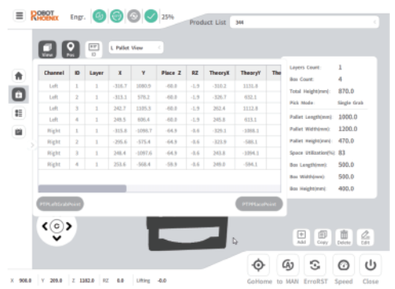
Graphical drag-and-drop programming

No prior robot programming experience required. Configure tasks simply by dragging and dropping functional modules.

Quick 30-minute onboarding

After brief training, ordinary operators can independently perform basic operations.

02 SUPERIOR PERFORMANCE



PTP precise debugging

Supports precise robot movement to specified positions, enhancing teaching and palletizing accuracy.

Dual-line / left-right palletizing

One unit can serve two production lines simultaneously, further improving equipment utilization.

03 ALL-ROUND SAFETY

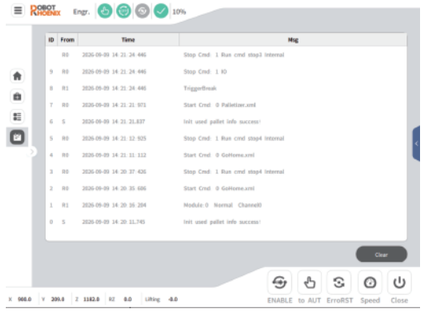
Multi-level Adjustable Collision Detection

Utilizes high-precision collision detection algorithms to minimize equipment collision risks.

Compliance with International Safety Standards

Meets global safety requirements, including ISO 10218 and ISO 13849 standards.

04 RELIABILITY & EASY MAINTENANCE



Remote Operation and Maintenance

Supports remote parameter configuration and fault diagnosis, reducing service response time.

OTA Firmware Upgrade

Enables continuous software feature updates and performance optimizations, keeping the equipment competitively advanced over time.

FAQ

Q: What is the minimum and maximum carton size supported? 01

A: Supports carton sizes ranging from **100x100x50mm to 500x500x500mm**.

Q: What is the maximum stacking height of this palletizing workstation? 02

A: The maximum stacking height for the fixed solution is **2200mm**, while the lifting solution can reach up to **2600mm**.

Q: Is the operation complex? Does it require professional programmers? 03

A: **No**. The system features a wizard-style graphical interface, enabling general operators to independently perform basic operations after brief training.

Q: Do I need to reconfigure after changing the product model? 04

A: The system supports recipe management. Parameters and stacking patterns for different products can be pre-saved, enabling direct loading of the corresponding recipe during product changeovers, **typically completed within 5 minutes.**

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