

collaborative robot palletizing system with low price and high efficiency reduce labor cost

Our Product Introduction

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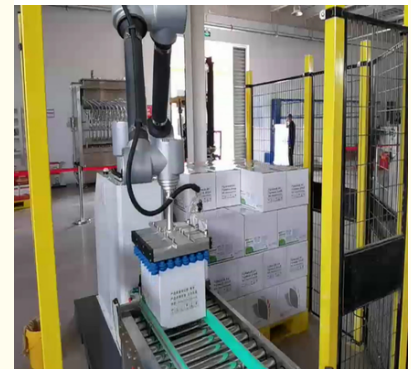
Basic Information

- Place of Origin: China
- Brand Name: TOM
- Certification: CE/ISO9001
- Model Number: MD-01
- Minimum Order Quantity: 1 set
- Price: Negotiable
- Packaging Details: 2300 mm(L)*2000 mm(W)* 2500 mm(H)
- Delivery Time: 30 working days
- Payment Terms: L/C, T/T
- Supply Ability: 25 Sets Per Month



Product Specification

- Robot Payload: 30kg
- Certification: ISO9001, CE, ISO, CE/ISO
- Control System: PLC (Programmable Logic Controller) With Touchscreen Interface
- Pallet Size: 1200 X1200 Mm
- Pallet Stacking Height: Maximum 2200 Mm (including Pallet)
- Brand: TOM
- Quality: European And American Quality



A **collaborative robot palletizing system** is an automated solution designed to stack, arrange, and organize products or packages onto pallets using a collaborative robot (cobot). Unlike traditional industrial robots, cobots are equipped with advanced safety features—such as force-limiting sensors and vision systems—allowing them to work safely alongside human operators without the need for extensive safety fencing.

In a palletizing application, the cobot typically receives items from a conveyor or workstation, uses a robotic gripper to pick them up, and places them in pre-defined patterns on a pallet. The system may include:

Vision or sensor systems for precise item positioning and orientation detection.

Programmable palletizing patterns to handle different product sizes and packaging formats.

Human-machine interfaces (HMIs) for easy operation and quick job changes.

Safety mechanisms enabling close-proximity collaboration.

Advantages of Collaborative Robots (Cobots)

Safe Human-Robot Interaction – Built-in force and speed limitations allow cobots to work alongside humans without extensive safety barriers.

Easy to Program – Intuitive programming interfaces, often with drag-and-drop or teach-by-demonstration functions, reduce the need for advanced coding skills.

Flexible Deployment – Lightweight and compact design makes cobots easy to move and reconfigure for different tasks.

Cost-Effective Automation – Lower initial setup costs and quick ROI compared to traditional industrial robots.

Multi-Task Capability – Can handle diverse applications such as assembly, packaging, palletizing, inspection, and machine tending.

Space Saving – Small footprint enables installation in tight production spaces.

Quick Changeover – Fast adaptation to different products and processes without lengthy downtime.

Enhanced Productivity & Consistency – Operates continuously with high repeatability, reducing human fatigue and errors.

Packaging & shipping:



Case display area

Company gate

Panorama of the company

Case display area

Company Overview--Jiangsu Tom Group



Tom "The Little White House"

Jiangsu Tom Group is an enterprise specializing in the production of pesticide / veterinary medicine, fertilizer and chemical intelligent equipment. The factory covers an area of 150 acres and has a construction area of 120,558 square meters. It has 710 employees, 2 doctoral students, 30 master students, and 358 undergraduates. It has obtained ISO9001 quality system. Certification, ISO14001 Environmental Management System Certification, OHSAS18001 Occupational Health and Safety System Certification, CE Certification, Jiangsu Province Specialized Specialized New "Little Giant" Enterprise, Changzhou Specialized Specialized New Small and Medium Enterprise, 125 National Utility Patents and 26 National Inventions patent. Over the past 24 years, after the hard work of Tom people, Tom Group has continued to innovate and develop, keeping pace with the times, providing generations of advanced intelligent packaging equipment for more than 3,300 pesticide / veterinary medicine, fertilizer and chemical companies, and building Industry 4.0 intelligent factories for customers; Provide automated three-dimensional warehouse; create smart factory production data acquisition and execution system (MES) for customers.

TOM 汤姆 Jiangsu TOM Intelligent Equipment Co., Ltd.,

+86 13306111001

tech@cn-tom.com

tom-packs.com

No.99, Rulin Town, Jintan District, Changzhou City, Jiangsu Province, China.