



PUDU T600 Series

Heavy-payload Industrial Delivery Robot





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PUDU T600 Series

Heavy-payload Industrial Delivery Robot

The PUDU T600 series includes standard and underride versions for different industrial transport needs. The standard version supports local task control with an onboard screen and handle. The underride version features a low profile for moving under racks and lifting cargo in narrow spaces. The series supports VDA5050 protocol, enabling seamless scheduling integration, and offers features like rack group recognition and ongoing upgrades for flexible, intelligent transport.



Key Features



Support 600KG large carrying capacity



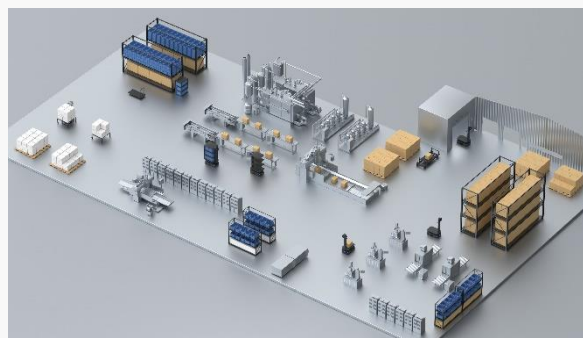
Larger sizes are **supported rack and pallet handling**



Support independent judgment the cargo space is empty



More efficient, flexible and configurable of distributed scheduling system



Supports VDA 5050 protocol robot hybrid scheduling is possible



Meets ISO 3691-4 industrial safety certification standards



Product Introduction





Product Specifications

Name	PUDU T600	PUDU T600 Underride
Dimensions	960 mm * 500 mm * 1350 mm (37.8 in * 19.7 in * 53.1 in)	845 mm * 500 mm * 255 mm (33.3 in * 19.7 in * 10.0 in)
Weight	112 KG / 247 lbs	94 KG / 208 lbs
Maximum load	600 KG (1322 lbs)	600 KG (1322 lbs)
Battery Capacity	30 AH	30 AH
Charging Time	2 H (from 0% to 90%)	2 H (from 0% to 90%)
Run-time	12 H (none load)	12 H (none load)
Cruise Speed	0.2~1.2 m/s (0.67~3.94 ft/s)	0.2~1.2 m/s (0.67~3.94 ft/s)
Navigation Method	VSLAM + LiDAR SLAM	LiDAR SLAM only
Minimum Passability	70 cm (27.6 in)	65 cm (25.6 in)
Max. surmountable height	10mm (0.39 in)	10mm (0.39 in)
Max. surmountable gap	35 mm (1.38 in)	35 mm (1.38 in)
Climbing ability	3°	3°
Operating Environment	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)





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Supports handling pallets and larger shelves

How PUDU T600 supports pallet handling:

1. Larger load surface, underride version T600 can handling size up to 1.2m × 1.6m (47.24 inches × 63.00 inches)
2. Larger load, handling weight up to 600KG
3. Universal pallet bracket accessories





Advantages of the T600 handling pallet:

PUDU T600 VS Unmanned Forklift Handling Solution:

1. In terms of scene adaptability, the turning radius is small, which is more suitable for the narrow aisle of the workshop;
2. In terms of safety, dual RGBD+ dual lidar, 360° no blind spot obstacle avoidance, anti-collision induction rubber strip, no blind spot on the side of the ruler, safer operation in the case of mixed human-machine traffic;
3. In terms of efficiency, there is no need to be compatible with the recognition of multiple pallet sizes, and the efficiency of pallet recognition and jacking is higher;



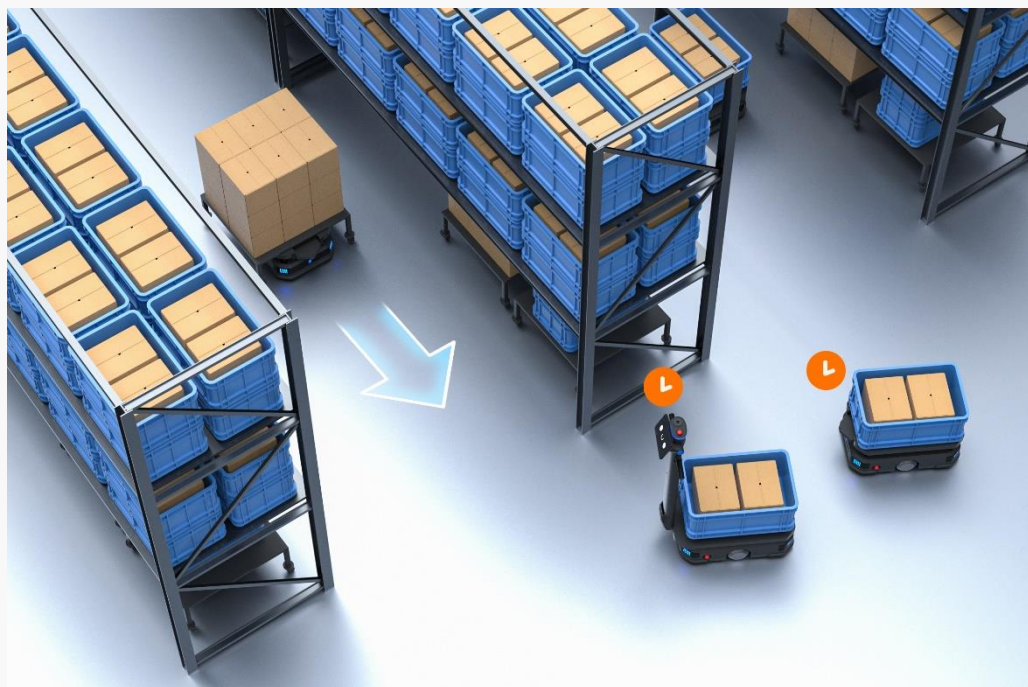
Support independent judgment of the empty status of the cargo space



Shelf group identification, independent pick-up and placement

Relying on the advanced navigation and perception system, **the T600 series can intelligently identify the target storage location and autonomously complete the pickup/release operation**, realize the unmanned operation of the whole process, and ensure the efficient and stable operation of the warehousing process.

More efficient, flexible and configurable distributed scheduling system



Narrow aisle intelligent passage
strategy

Based on the road width and the real-time load size of the robot, the system intelligently judges the applicable one-lane or dual-lane traffic mode, and dynamically adjusts the traffic strategy to effectively improve the utilization rate of narrow spaces and the efficiency of multi-machine collaborative traffic.

Supports VDA 5050 protocol for robot hybrid scheduling



Compatible with VDA5050 standard communication protocols, it can be coordinated with other robots/systems that meet this standard. No need for customized development or complex interface modification to quickly build a unified, efficient, and scalable flexible logistics network.

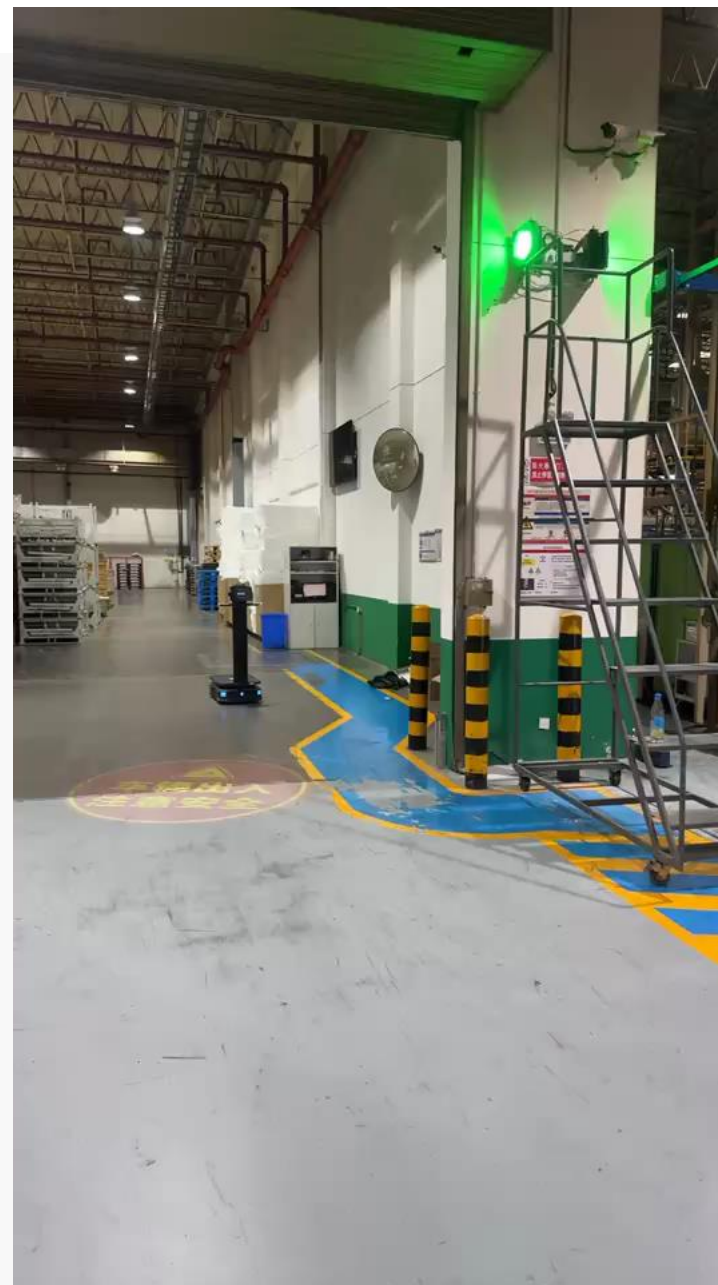
Security

Ground Projection*: Projects warning signs ahead to mark the driving area and create a safe human-machine workspace.

Traffic Light Control: When mixed with forklifts, T600 controls traffic lights to alert its passage, prompting other equipment to avoid.

Disaster Evasion: PUDU T600 has a dedicated module; it receives disaster signals (fire, earthquake), auto-executes evasion: navigates and parks safely.

*The ground projection function does not support the T600 override version.



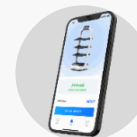


IOT Capabilities

Equipped with expansive IoT capabilities, PUDU T300 supports elevator control, e-gate access, and various other smart connectivity solutions. Featuring multiple remote calling functions such as pagers and app-based calling. Additionally, it offers software API interfaces for seamless system integration. Outfitted with external power supply ports and USB outlets for convenient hardware device integration.



Peripheral Interface



PUDU Link (App)



Pager



Elevator Control Module



E-gate Control Module



Bluetooth Speaker



火警报警模块



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About pallets

Pallets are one of the **most basic and commonly used handling and storage units** in the field of logistics and warehousing, realizing the leap from "bulk cargo handling" to "unitized handling" of goods, which is the cornerstone of modern logistics.

The global pallet fleet is about 7.5 billion, North America (mainly the United States) about 2.7 billion, China about 1.7 billion, Asia Pacific (excluding China) about 1 billion, and Europe about 1 billion.



What industries should the T600 focus on?

1. The number of pallets is large
2. High handling frequency
3. The number of porters is large

A. Logistics and warehousing

1. Express delivery and express logistics
2. Supply chain logistics
3. Cross-border logistics



B. Wholesale and retail

1. Wholesale of food, beverage and tobacco products
2. Wholesale of textiles, clothing and household goods
3. Wholesale of mineral products, building materials and chemical products
4. Wholesale of machinery and equipment, hardware products and electronic products
5. General retail (department store/supermarket)
6. Specialized retail of hardware, furniture and interior decoration materials



C. Manufacturing

1. Electrical and mechanical manufacturing
2. Paper industry and paper products industry
3. Food and beverage
4. Automotive industry





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Product Value



Enhanced Efficiency

The T600 series increases operational throughput by autonomously navigating through industrial environments, reducing delivery times and increasing productivity.

Improved Safety

With advanced sensors and safety features, the T600 series minimizes the risk of accidents in the workplace by detecting and avoiding obstacles, ensuring safer interactions between machines and human workers.





Product Value

For Customization

The T600 series can be customized with different attachments or software configurations to meet specific industrial needs, ensuring it can adapt to various tasks and environments without requiring multiple separate machines.



For Sustainability

The T600 series is engineered for optimal energy use, featuring advanced lithium-ion battery technology and energy management systems that ensure longer operation times while consuming less power, thus decreasing overall energy costs and environmental impact.



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About US



Pudu Robotics, a [global leader in the service robotics sector](#), is dedicated to enhancing human productivity and living standards through innovative robot technology.

With a focus on R&D, manufacturing, and sales of service robots, PUDU emphasizes three core technologies: [mobility, manipulation, and artificial intelligence](#). PUDU has taken the lead in establishing a comprehensive range of [specialized, semi-humanoid, and humanoid robotic products](#) in the industry.

Currently, PUDU offers three product lines: [service delivery robots, commercial cleaning robots, and industrial delivery robots](#), which are deployed across ten major industries, including food and beverage, retail, hospitality, healthcare, entertainment and sports, industrial facilities, education, and more. To date, Pudu Robotics has successfully shipped [over 100,000 units](#) to a variety of markets, with a presence in more than [1,000 cities across 80+ countries and regions](#) worldwide.



Global Footprint



80+ Countries and Regions Covered

1,000+ Cities Covered

700+ Global Distributors

800+ Total Employees

* Relevant statistics as of June 2025

Honor and Awards



Pudu Robotics has gained recognition from organizations and institutions across various industries.

 reddot award best of the best	 reddot winner 2025	 INTERNATIONAL DESIGN EXCELLENCE AWARDS	 DESIGN AWARD 2025	 GOOD DESIGN AWARD 2022	 FAST COMPANY INNOVATION BY DESIGN 2024
Red Dot Award: "Best of the Best"	Red Dot Award: Product Design 2023 & 2025	International Design Excellence Awards	iF DESIGN AWARD 2023 & 2025	Good Design Award	Fast Company Innovation by Design Awards
 Finalists WIPO Global Awards	 CES	 IFEX Innovation Awards 2022	 HIP Horeca Professional Expo HOSPITALITY INNOVATION PLANET	 COMMERCIAL KITCHEN INNOVATION CHALLENGE GOLD WINNER 2022	 THE IFSA'S THE HIGH FOODSERVICE SUPPLIER AWARDS BEST FOODSERVICE TECHNOLOGY PRODUCT - FRONT OF HOUSE 2023
Named among the top 25 for the WIPO Global Awards	CES Innovation Awards	IFEX Innovation Awards	Horeca New Business Models Awards	Winner of Commercial Kitchen Innovation Challenge	IFSA Awards

Revolutionizing Ten Major Industries with Smart Robotic Solutions



Food & Beverage



Hospitality



Retail



Industrial Facility



Health Care



Residential and Office Buildings



Education



Entertainment & Sport



Transportation and Related Service



Public Service



Thank you!



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