PUDU

PUDU T600 Series

Heavy-payload Industrial Delivery Robot



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Heavy-payload Industrial Delivery Robot

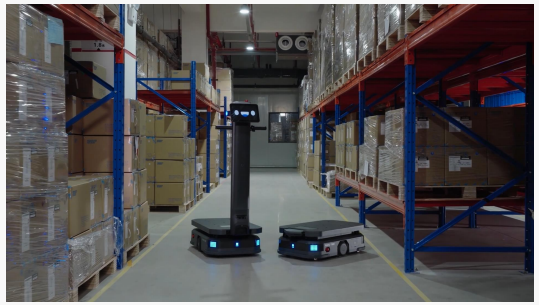
The PUDU T600 series includes standard and underride versions for different industrial transport needs. The standard version supports local task control with an onboard screen and handle. The underride version features a low profile for moving under racks and lifting cargo in narrow spaces. The series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



Key Features



600 KG Payload Capacity



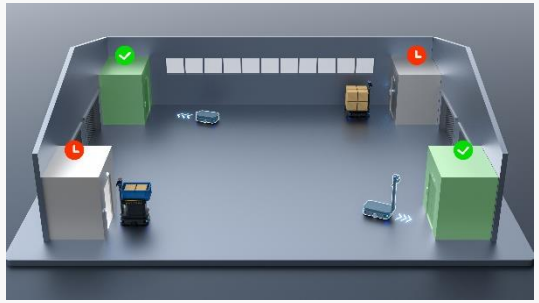
Two modes, Freely Selectable



Rack Group Recognition



Support VDA5050 Protocol



Idle Elevator Priority Scheduling



On-premises Deployment

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)
Operating Environment	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)



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Two modes, Freely Selectable.

PUDU T600:

The PUDU T600 is a heavy-payload industrial delivery robot designed for moving large payloads. Centered around a robust mobile chassis, it features a touch screen and handle for user-friendly operation.

Features:

Equipped with a **built-in screen**, it can be operated directly without a central control system.

Includes a **power-assist switch**, **quick-access buttons**, and front indicator lights for easy and efficient use.



Two modes, Freely Selectable.

PUDU T600 Underride:

The PUDU T600 Underride Version is a chassis-based industrial delivery robot. With a low-profile design, it can navigate beneath racks and lift them autonomously for material handling.

Features:

Compact form allows it to **travel underneath** rack units, enabling flexible navigation.

Capable of lifting cargo from the center underneath, requiring minimal path clearance.



600 KG Upgrade



600 KG Payload Capacity

With a 600 KG payload capacity, the T600 is built for heavy-payload material transport, greatly reducing delivery frequency and improving efficiency per trip.

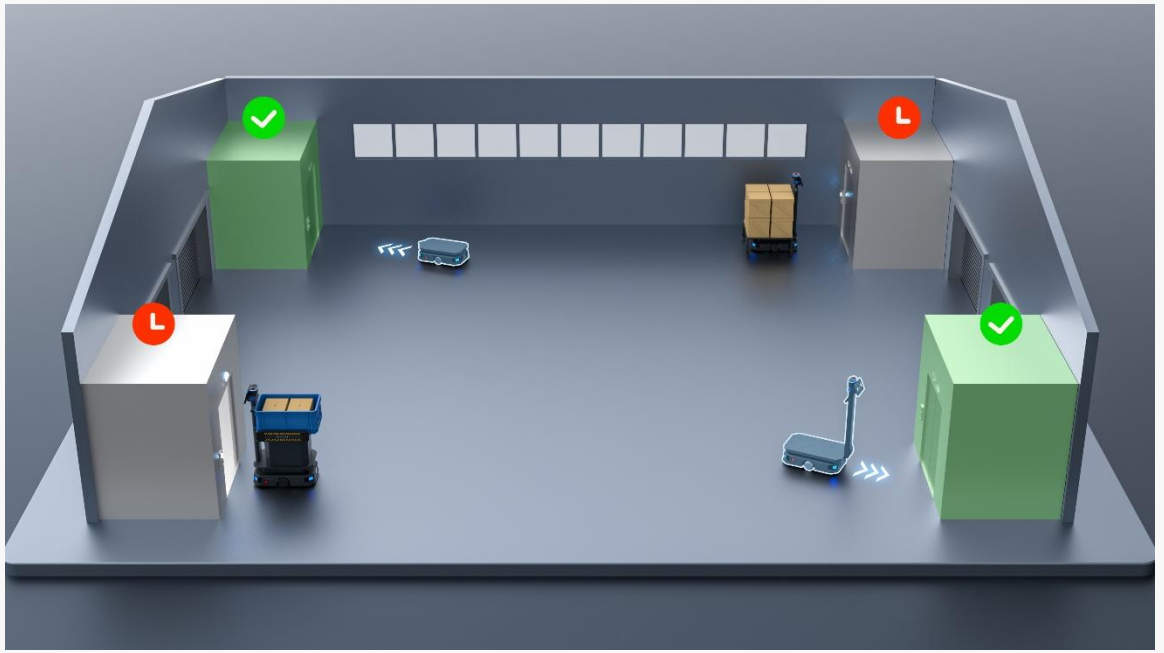
Rack Group Recognition



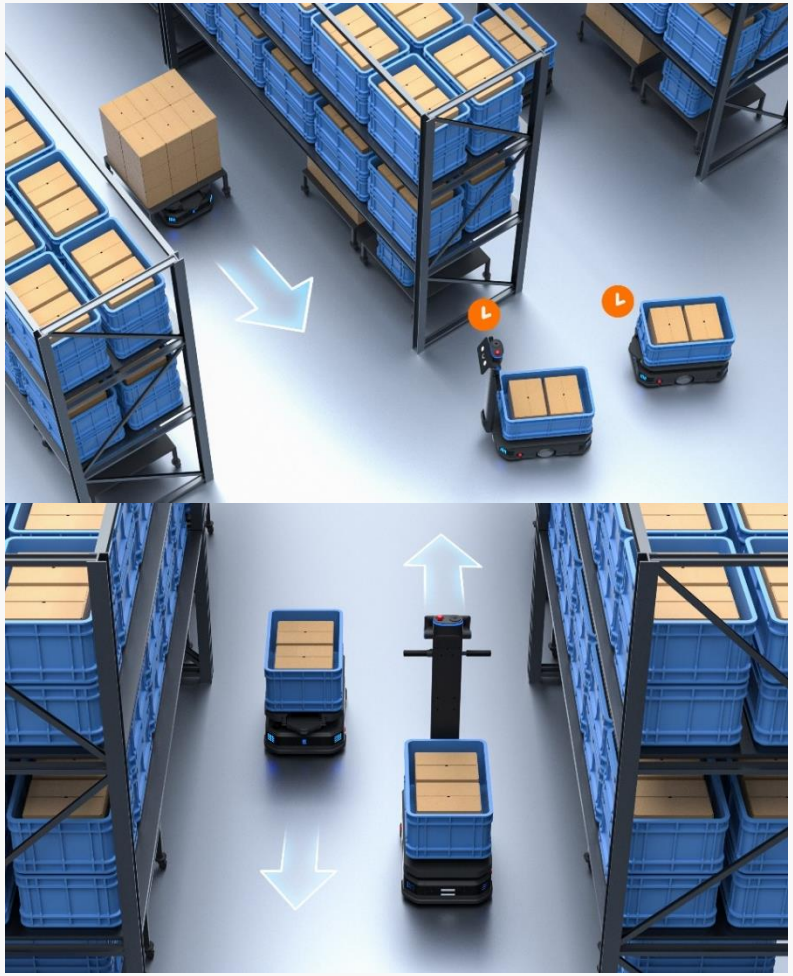
Powered by advanced navigation and perception systems, the T600 series **intelligently identifies target storage locations and autonomously performs pick-and-place operations.** This enables fully unmanned workflows, ensuring efficient and reliable warehouse operations.

Idle Elevator Priority Scheduling

In busy multi-elevator scenarios, the system intelligently **calls idle elevators first**. The smart scheduling algorithm monitors elevator status in real time, prioritizing available elevators to avoid peak-time congestion and resource waste, significantly improving cross-floor delivery efficiency.



PUDU Scheduling



Narrow Aisle Intelligent Traffic Strategy

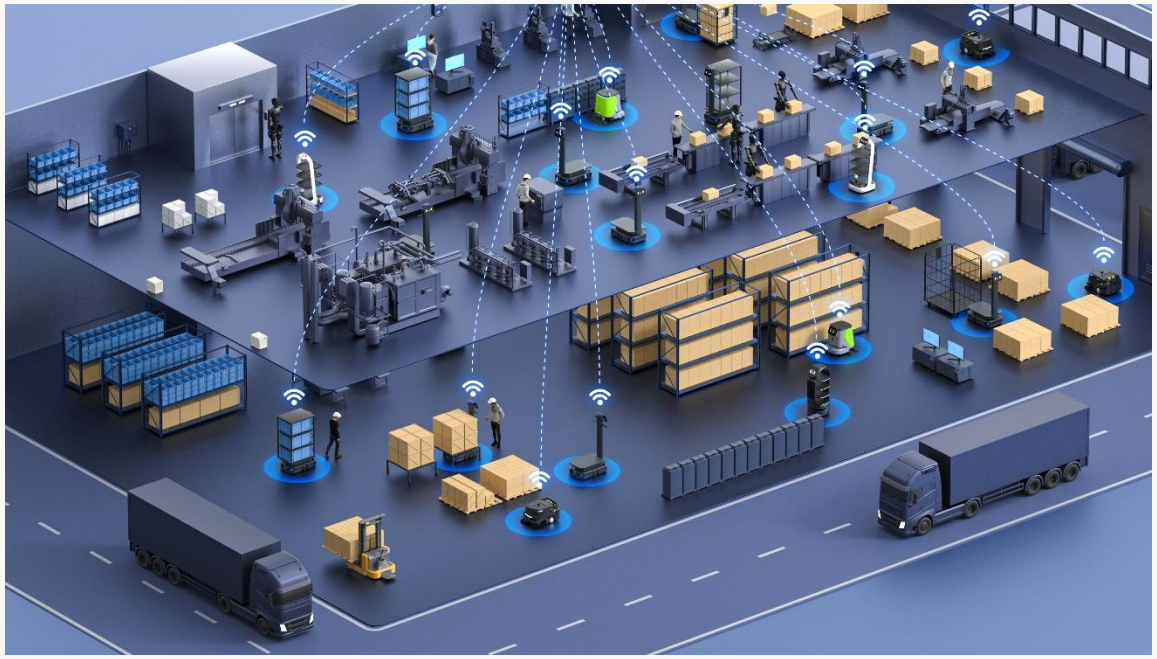
Based on path width and the robots‘ real-time load dimensions, the system intelligently determines **whether to apply single-lane or dual-lane traffic modes**. It dynamically **adjusts routing strategies** to maximize space utilization and improve multi-robot coordination efficiency in narrow environments.

Flexible Deployment

The T600 series can quickly adapt to changes in production layouts without the need for time-consuming reconfiguration or facility modifications.

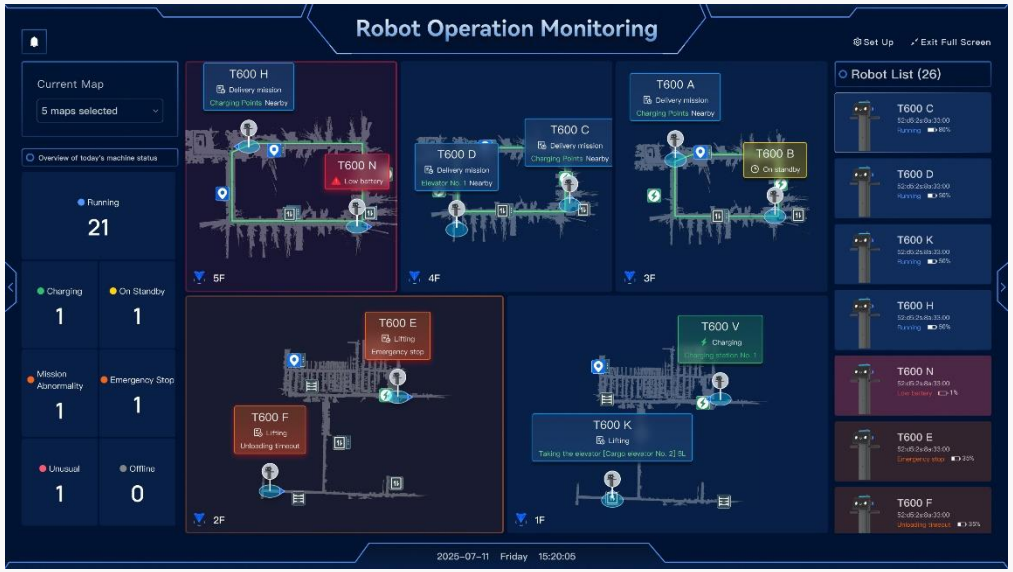


VDA5050 Protocol



Compatible with the VDA5050 standard communication protocol, **enabling collaborative scheduling with other compliant robots** and systems. No custom development or complex interface integration is required, allowing for rapid deployment of a unified, efficient, and scalable flexible logistics network.

On-premises Deployment



The PUDU T600 supports on-premises deployment, allowing the system to run on the **customer's own local servers or private cloud**. This enables data to circulate within a **closed internal network**, eliminating reliance on external cloud services and significantly reducing data transmission risks, ideal for industrial or commercial environments with **high security requirements**.

Once deployed, **customers have full control over access permissions, system updates, and data backups**, further enhancing system flexibility and manageability.

For Safety

Ground Projection*:

Projects a linear warning mark in front of the T600 to **indicate the travel area**, creating a safe human-robot collaborative workspace.

Dynamic Obstacle Avoidance:

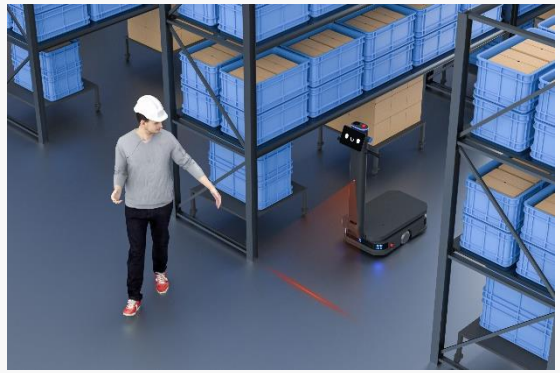
Autonomously detects low obstacles and flexibly navigates around them to ensure safe operation.

Disaster Avoidance Function:

The PUDU T600 is equipped with a dedicated disaster avoidance module that can intelligently **receive signals such as fire alarms and earthquakes, and automatically execute avoidance plans**.

Autonomous navigation to a safe area.

Intelligent judgment to stop and park at a safe location.







24/7 Non-stop Operations

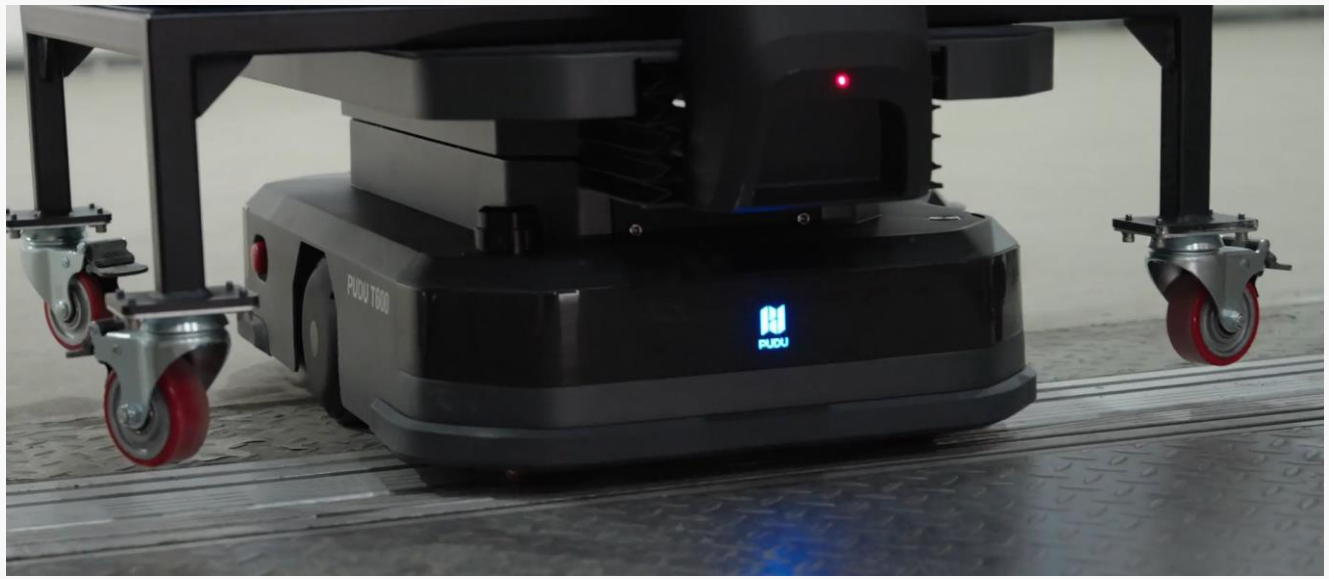


12 hours of continuous work, 2 hours for rapid charging:

The T600 series offers a 12-hour run-time and supports a fast 2-hour charging capability. Equipped with both automatic recharging and battery replacement options, it ensures uninterrupted service to fulfill round-the-clock operational requirements.

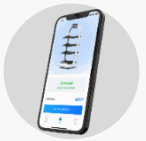
IoT Integration

Equipped with expansive IoT capabilities, PUDU T600 series 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

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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.



* Relevant statistics as of June 2025

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.

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
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

Application Industries

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