



# PUDU T300

INDUSTRIAL DELIVERY ROBOT





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# PUDU T300

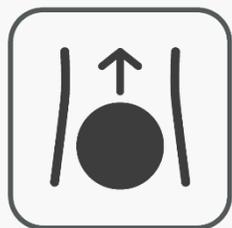
## Industrial Delivery Robot

The PUDU T300 is a versatile delivery robot designed for material transport in industrial environments and heavy-load delivery in commercial settings. It features a robust, load-bearing chassis with an open architecture and includes an operational screen for user convenience. The robot can handle loads up to 300kg and is equipped with essential IoT capabilities such as elevator control, gate navigation, and remote paging functionality. It also provides extensive software and hardware interfaces, making it easy to integrate with existing software systems and expand with additional hardware.





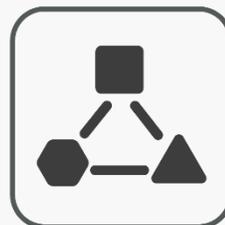
# Key Features



Superior Mobility



300kg Load Capacity



Multi-modal Interaction



7/24 Non-stop Operation



Diversified Attachments



Flexible Vslam+ Positioning



360° Omni-Sense Safety



ISO 3691-4 Standard



# Product Introduction





# Product Specifications

Category	Standard Version	Shelf Version	Lifting Version	Towing Version
Machine Weight	65kg	103kg	81kg	90kg
Loading Capacity	300kg	300kg	300kg	400kg (200kg Counterweight)
Max. Speed	1.2m/s	1.2m/s	1.2m/s	0.8m/s
Path Clearance	≥60cm	≥60cm	Determined by load size	Determined by load size
Threshold Overcoming Height	20mm	20mm	20mm	5mm
Groove Crossing Width	35mm			
Run-time (No Load)	12h			
Run-time (Full Load)	8h	8h	8h	6h
Dimensions	835mm * 500mm * 1350mm			
Charging Time	2h (0% to 90%)			
Navigation Methods	VSLAM & Lidar SLAM			





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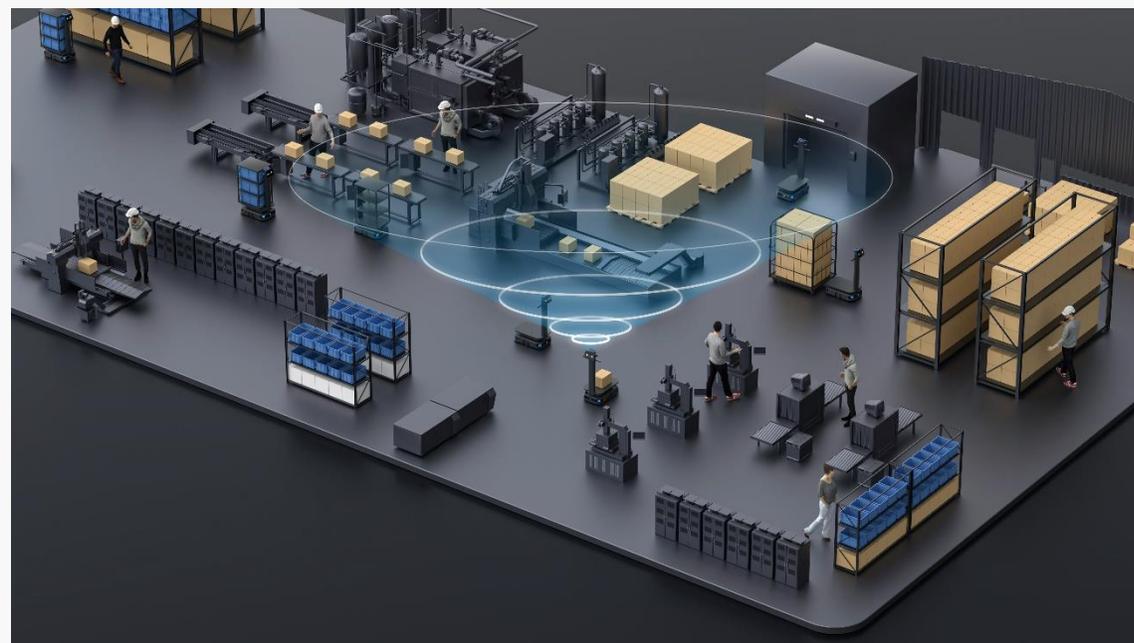
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# VSLAM+ for Rapid Deployment Across Vast Venues

## Precision Meets Presence

- The T300 utilizes the Pudu's original **VSLAM+ technology** and is classified as an AMR. Unlike traditional AGVs, it does not depend on preset physical path markers but rather navigates freely using an advanced visual positioning system. This allows the PUDU T300 to **quickly adapt to changes in production layouts without the need for time-consuming reconfiguration or facility remodeling.**
- Operation even in high ceiling environment up to **30 meters**
- Extra large scene mapping for up to **200,000m<sup>2</sup>**
- Deployment time is reduced by **70%** compared to traditional AGVs, while the use of a built-in mapping tool boosts mapping efficiency by an additional **30%**.





# 360° Omni-Sense Safety

- The T300 industrial delivery robot sets a high standard in safety, **meeting the stringent ISO 3691-4** guidelines for industrial vehicles. Its advanced safety features ensure reliable operation within the ever-changing landscape of factory settings.
- At the heart of its safety suite are cutting-edge LiDAR sensors, which provide a 360-degree scan of the robot's surroundings to detect objects and navigate with precision. Depth cameras offer an additional layer of spatial awareness, allowing the T300 to accurately measure distances and effectively avoid collisions.





# Multi-Robot Collaboration

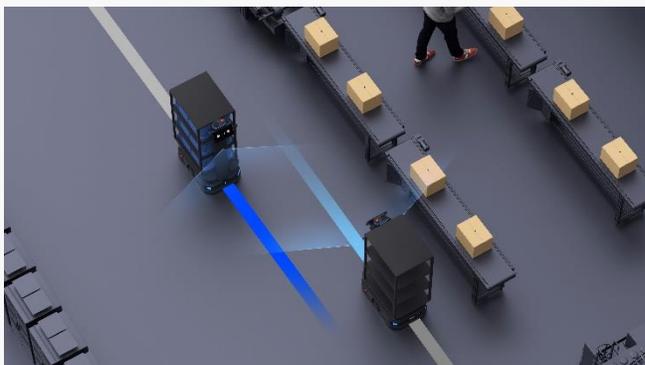
## PUDU Scheduler System

- Powerful self-organized network
- Dispatch up to 20 robots in one environment
- Realtime environmental perception
- Automatically detour for traffic congestion
- Adapt to complex and dynamic scenarios
- Allow painless collaboration among robots



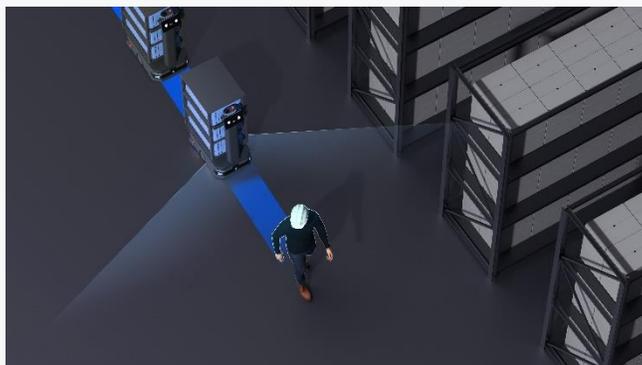


# Auto & Semi-auto Delivery Modes



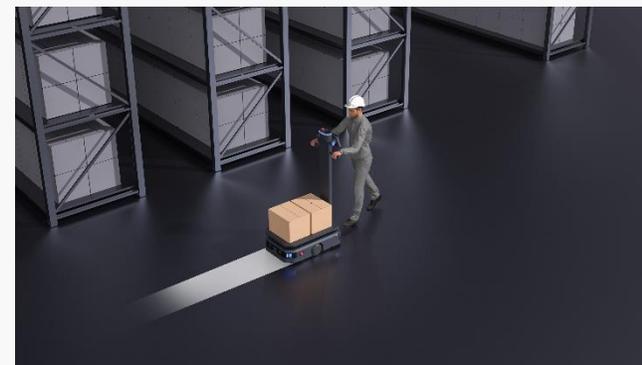
## Auto-delivery Mode

The T300 is capable of autonomous navigation and can deliver goods to any designated destination. Additionally, you can swiftly adjust the maps to accommodate changes in the production line.



## Follow Mode

The T300 employs visual recognition technology to facilitate an orderly queuing and following mechanism among multiple robots, a system primarily used for material preparation and the transportation of assorted goods.



## Power-assist Mode

When manual intervention is required for specific tasks or map generation, the T300 is equipped with an electric power-assist system to facilitate hand-pushing operations, thereby enhancing delivery efficiency and convenience.



# Versatile External Attachments

## Expand Your Capabilities with PUDU Attachments

The diversified expansion of applications significantly enhances the robot's adaptability and versatility, thereby increasing operational efficiency and simplifying procedures, ensuring a more efficient, smooth, and seamless delivery process.



**Standard Mode**



**Tray Mode**



**Lifting Mode**



**Towing Mode**



# Versatile External Attachments



## Features

Large capacity

Multi-level carrying space

Fully automated delivery and loading/unloading

Flexible integration with existing carriers

## Scenarios

Large-scale material box transport

Multi-site small or medium material transport

Multi-site small or medium material transport

Materials need to be transported using existing wheeled carriers



# Versatile External Attachments



**Towing Device**

- Smart towing & auto unhooking
- No modifications are required to existing trailers
- Once unhooked, the T300 instantly switches to new tasks



**Lifting Rack**

- Auto recognition, docking, and lifting with T300
- Metallic structure design
- Multidirectional movement



# Versatile External Attachments



**Reflective Post**

- Achieves  $\pm 1\text{cm}$  docking accuracy with T300
- Supports magnetic, snap, or bolt fixation, enabling quick installation within 10 minutes
- High-strength aluminum alloy material with excellent impact resistance



**Tray**

- Multi-layer Structure for various kinds of cargo
- Each layer supports up to 100kg
- Durable metal materials featuring non-slip finishes
- Tray edge barriers ensure cargo stability
- Tool-free installation and disassembly



# Exceptional Adaptability to Different Sites

## Exceptional mobility to navigate various obstacles

Boasting an exceptional 60cm path clearance, the T300 ensures agile maneuverability in narrow human-robot cohabited spaces, effortlessly overcoming 20mm thresholds and 35mm grooves. It facilitates precise material transport between production lines and is designed to meet elevator control requirements.

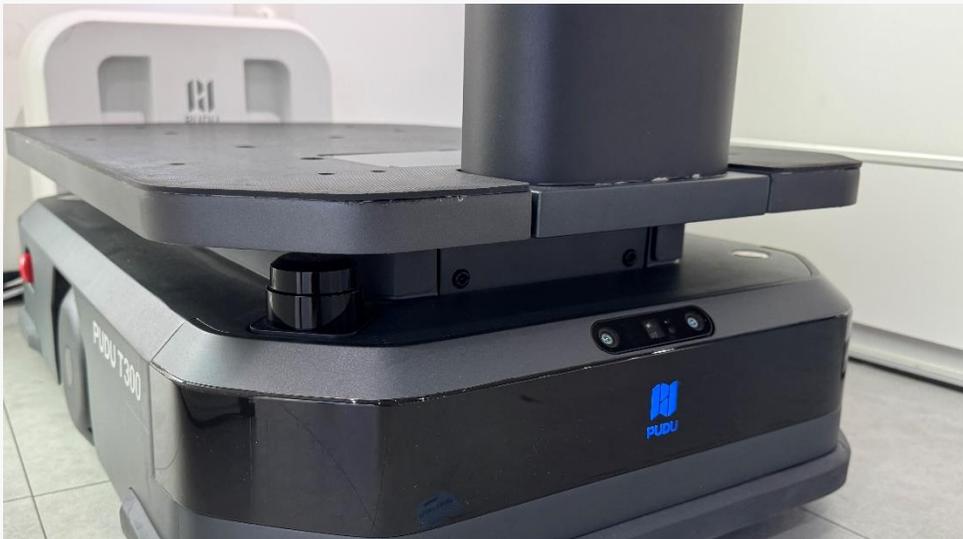




# Round-the-clock Operation

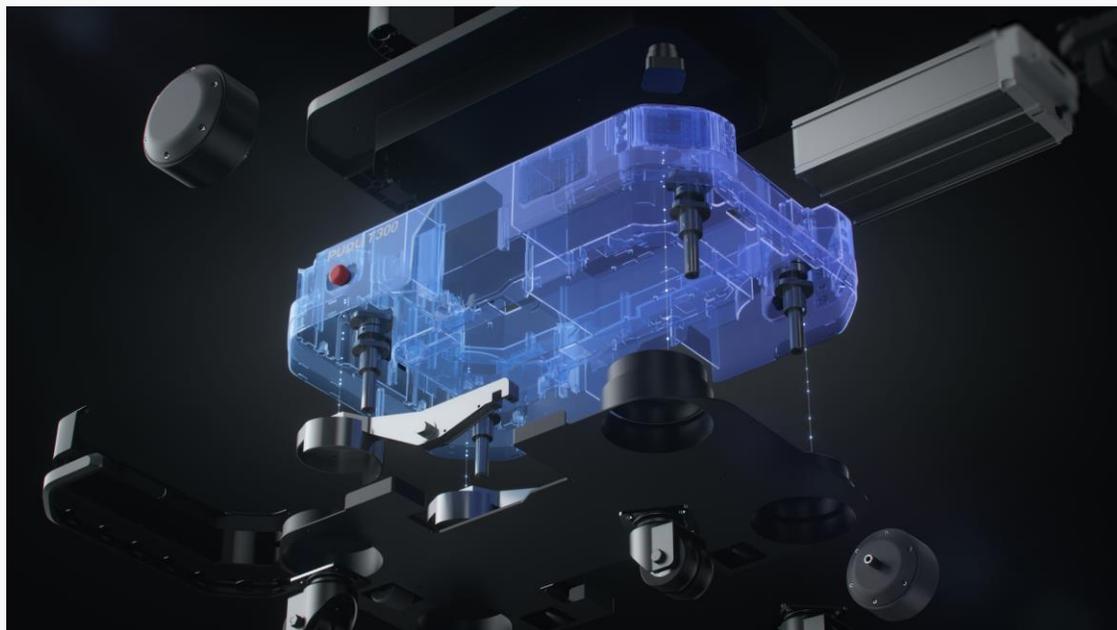
## 24/7 Non-stop Operations

- **8 hours of continuous work, 2 hours for rapid charging**
- The T300 offers an 8-hour battery life and supports a fast 2-hour(from 0% to 90%) charging capability. Equipped with both automatic recharging and battery replacement options, it ensures uninterrupted service to fulfill round-the-clock operational requirements.





# Stabilized Delivery

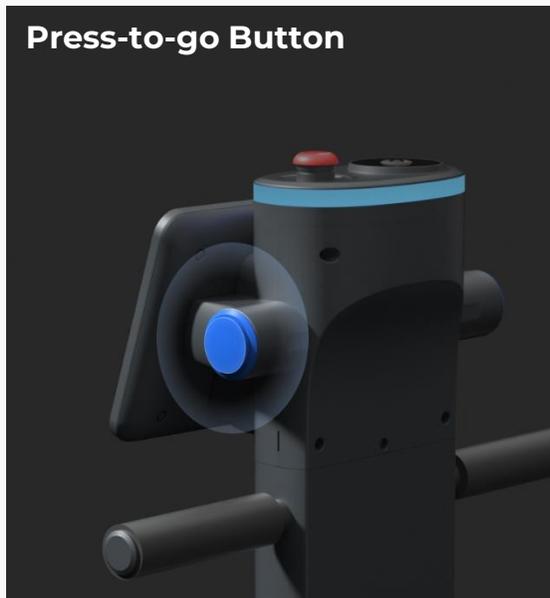


- The newly **upgraded vehicle-grade chassis** and motion control algorithms **enhance delivery stability**, making it suitable for delivering various materials in diverse scenarios.
- Enhanced with **shock-absorbing technology**, our upgraded automobile-level adaptive suspension significantly improves the stability of T300.



# Multimodal Interaction

Press-to-go Button



Traffic Signal Lights



Audible Alerts



High-brightness Operation Indicator





# 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



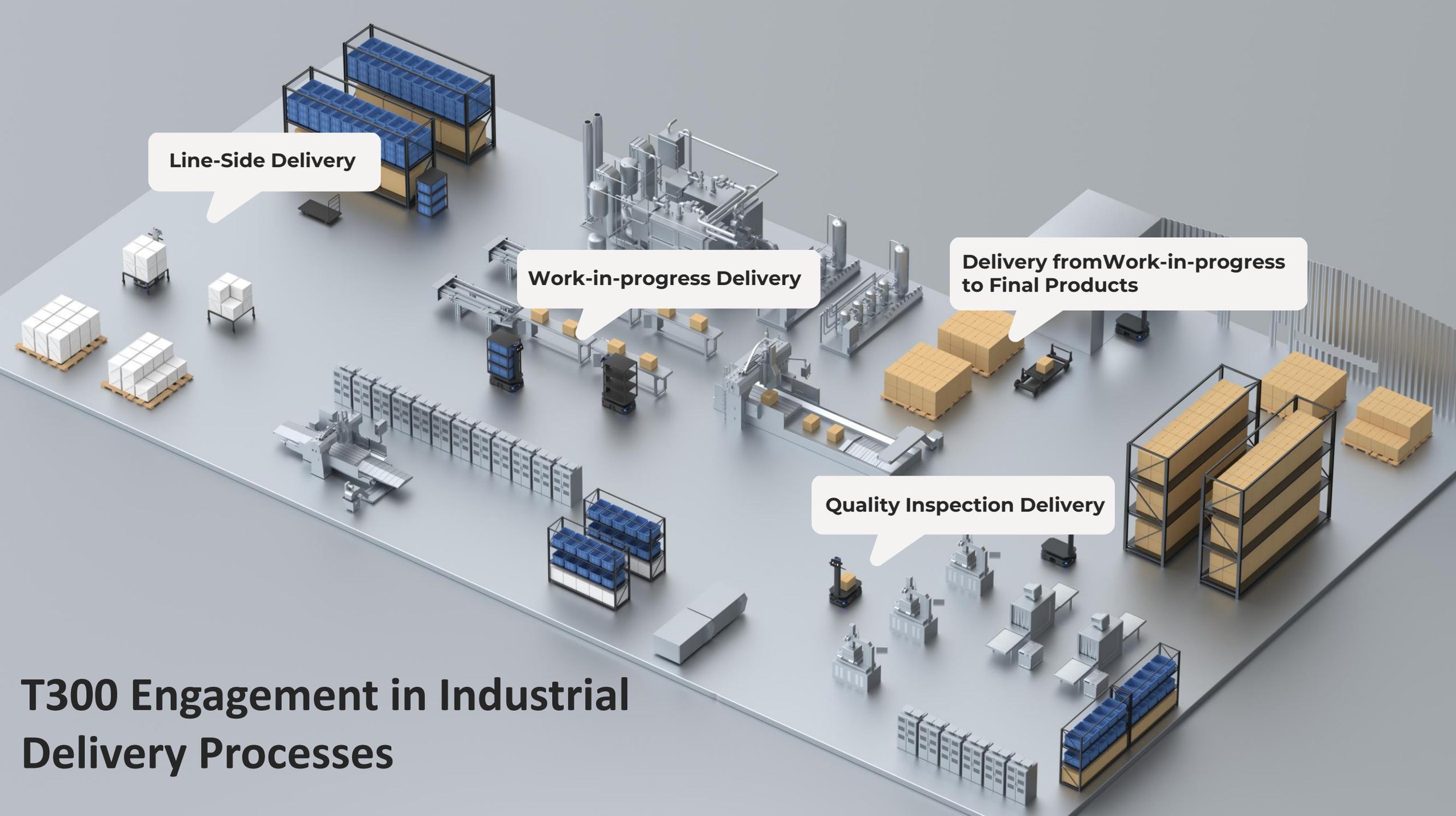
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The image is a 3D perspective rendering of a modern industrial factory floor. It features various pieces of machinery, including conveyor belts, robotic arms, and large storage racks. The floor is populated with several types of materials: white pallets, blue bins, and yellow pallets. Four callout boxes with white backgrounds and black text are positioned over the scene, each pointing to a specific area. The overall lighting is bright and even, highlighting the metallic surfaces and the organized layout of the facility.

**Line-Side Delivery**

**Work-in-progress Delivery**

**Delivery from Work-in-progress to Final Products**

**Quality Inspection Delivery**

# T300 Engagement in Industrial Delivery Processes



# Product Value



## Enhanced Efficiency

The T300 increases operational throughput by autonomously navigating through industrial environments, reducing delivery times and increasing productivity.

## Improved Safety

With advanced sensors and safety features, the T300 minimizes the risk of accidents in the workplace by detecting and avoiding obstacles, ensuring safer interactions between machines and human workers.

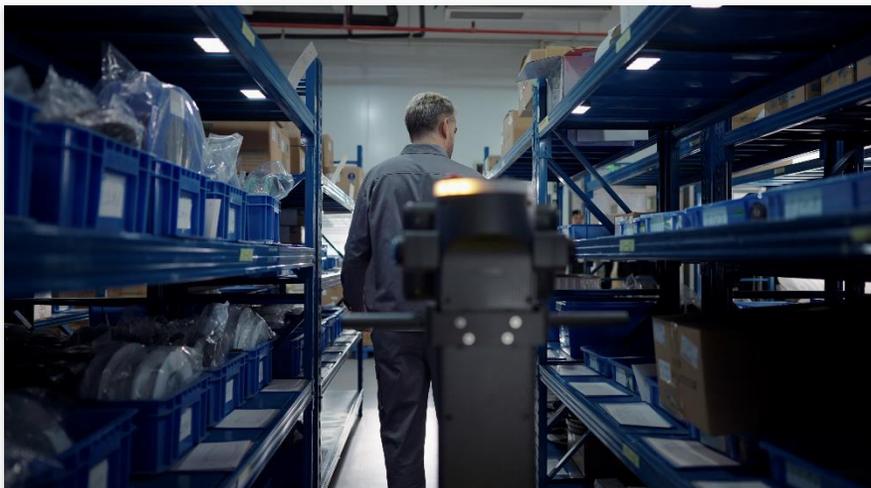




# Product Value

## For Customization

The T300 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 T300 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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# Pudu Robotics

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 Robotics holds nearly a thousand authorized patents worldwide, encompassing a wide range of core technologies. The company's robots have been widely adopted in various industries, including dining, retail, hospitality, healthcare, entertainment, education and manufacturing. To date, Pudu Robotics has successfully shipped over 80,000 units to a variety of markets, with a presence in more than 60 countries and regions worldwide.

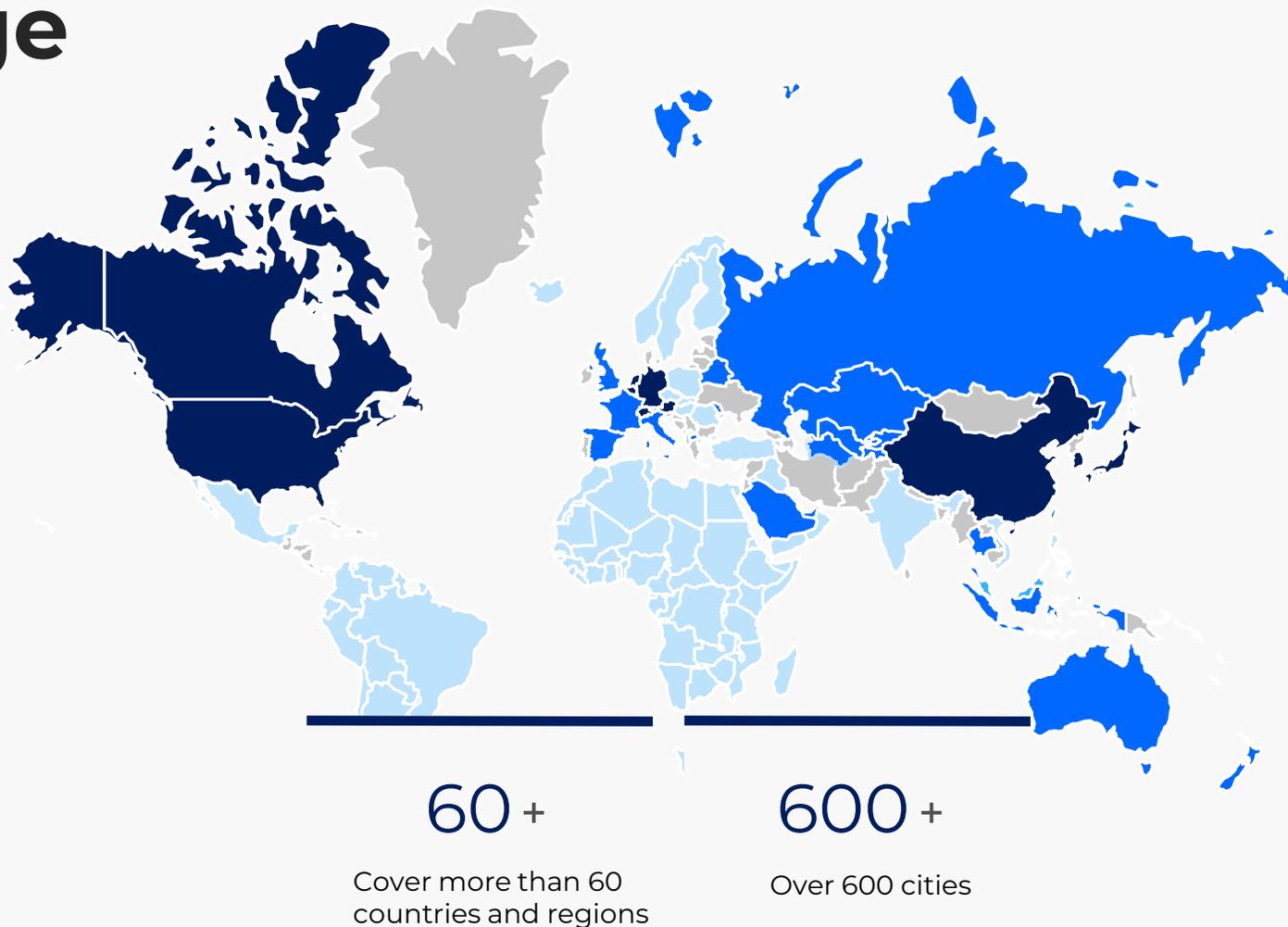




# Scale Advantage

## Globalization

Pudu Robotics has established a business presence in North America, Europe, East Asia, Asia-Pacific, the Middle East and Latin America. The products have been exported to more than 60 countries and regions around the world, covering more than 600\* cities worldwide. Pudu Robotics has established a trustworthy international brand image and become one of the representative enterprises of China's "intelligent" manufacturing abroad.





# Cooperation

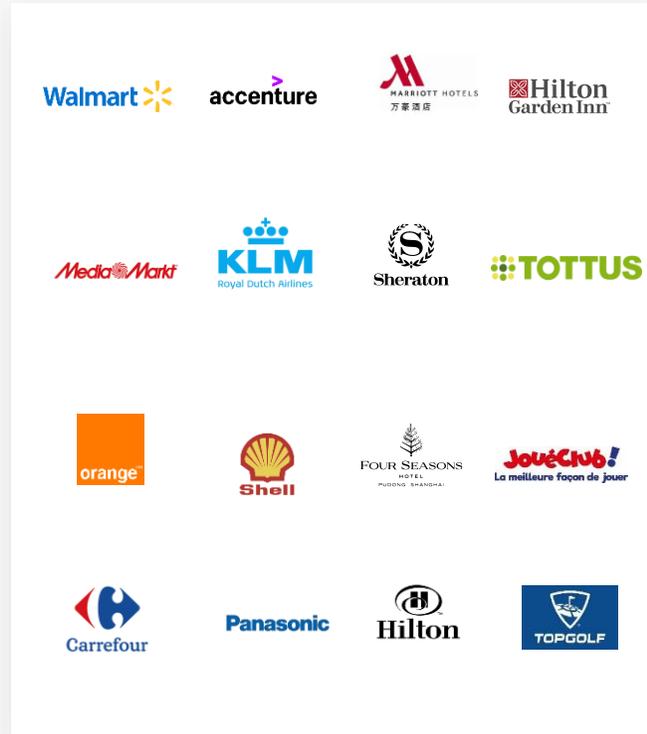
80%

The market share of Top 100 restaurant clients

40,000+ Deployed Store



Catering Partners



Non-Catering Partners



Software and Hardware Partners



# Media Coverage

stuff life & style

## Robot waiter helps ease staff shortages in busy Northland restaurant

Denise Piper - 14:32, Jan 14 2022



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Tuesday, Jan 18th 2022 17:14 18°C @ 17:14 18°C 5 Day Forecast

This added an extra strain on the already short waiting staff, according to owners Paolo Hu and Peter Wu, who said the BellaBots had already proved popular with diners.

The guide price for the friendly-faced robots is \$20,000 (£14,500), which is less than the cost of employing a waiter at minimum wage for 40 hours per week.

Quirky footage shows Bella, who features a wide-eyed feline face, sweeping across the restaurant floor dishing out delicacies to delighted customers.



Vikas Sharma, owner of Green's Thai Cuisine in Pahlia, explains how the BellaBot is used in the restaurant to take pressure off busy staff.

Wait staff run off their feet this summer due to worker shortages are getting an extra hand of the non-human kind.

A robotic waiter, BellaBot, is helping by delivering meals from the kitchen to tables, then running dirty dishes back to the kitchen.

At Pahlia restaurant Green's Thai Cuisine, the BellaBot means wait staff can spend an average of 11 to 12 minutes longer at each table, owner Vikas Sharma said.

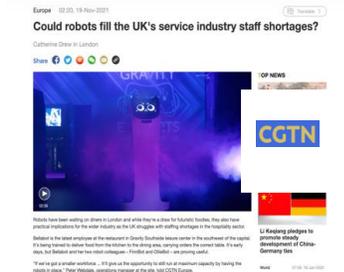
CGTN

Europe 02:20, 19-Nov-2021

Could robots fill the UK's service industry staff shortages?

Catherine Drew in London

Share



Robotics have been widely used in a number of ways and while they're able to handle tasks, they don't have the same level of intelligence as the human brain. The UK's service industry is facing a shortage of staff and the use of robots could help to fill the gap.

AP Pudu Robotics' New Afra C1 Cleaning ... CES 2022

Pudu Robotics, the global leader in commercial service robots, has enhanced its rich product portfolio with its new Afra C1 cleaning robot, which made its global debut on day one of CES 2022. The first international appearance of Afra C1 marks Pudu Robotics' official entry into the commercial cleaning robot market, as it seeks to explore applications of digital technology to hygiene and sanitation services.

RESTAURANTS + BARS

## Madison Heights restaurant uses a robot to deliver food to tables

Melody Baetens The Detroit News

Published 12:51 p.m. ET Aug. 16, 2021 | Updated 9:28 a.m. ET Aug. 18, 2021

View Comments

A Chinese noodle restaurant in Madison Heights may be the first in the area to employ the BellaBot, a robotic cart with a digital cartoon cat face that rolls food from the kitchen to the customers' tables.

Noodle Topia on John R is known for its house-made, hand-pulled noodle dishes, dumplings and Chinese tea drinks. The casual eatery has gained some non-human assistance in the form of BellaBot, which has four trays for carrying food (no arms) and has a precise



Image: ABC Radio Hobart

## First robot waiter in Tasmania glides into service

On Your Afternoon with Helen Shield

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There are definitely echoes of The Jetsons at one Japanese restaurant in Hobart! The state's first robot waiter glides from the kitchen to each table, serving meals from a tray on its back.

Harry He is a software engineer who loves new technology, and when he first came across the robot waiter online (this model is called Kero), he saw it as a great contactless service solution for Tasmania. Harry formed Tas Robots, and suggested his friend Tony, who runs Kirakira Japanese, might like to add one to his floor staff. Press play for lunch with a side of the latest technology.





# Thank you!

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