



PUDU T300

INDUSTRIAL DELIVERY ROBOT





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About PUDU



PUDU T300

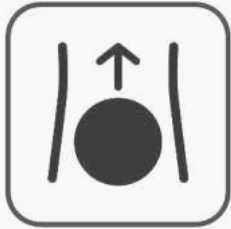
Industrial Delivery Robot

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.





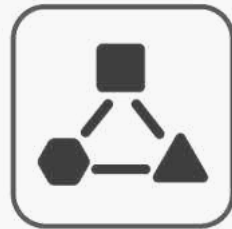
Key Features



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

Machine Dimension	78cm*50cm*134cm
Machine Weight*	60kg
Loading Capacity	Maximun 300kg
Run-time	12h (none load) , 6h(fully load)
Battery Capacity	30Ah
Charging Time	2h (from 0% to 90%)
Cruise Speed	Maximum 1.2m/s
Threshold Overcoming Height	Maximum 20mm
Groove Crossing Width	Maximum 35mm
Path Clearance	Minimum 60cm
Navigation Methods	VSLAM & Lidar SLAM



*The T300 with lifting functionality will weigh approximately 80kg.



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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 **200,000m²**
- 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

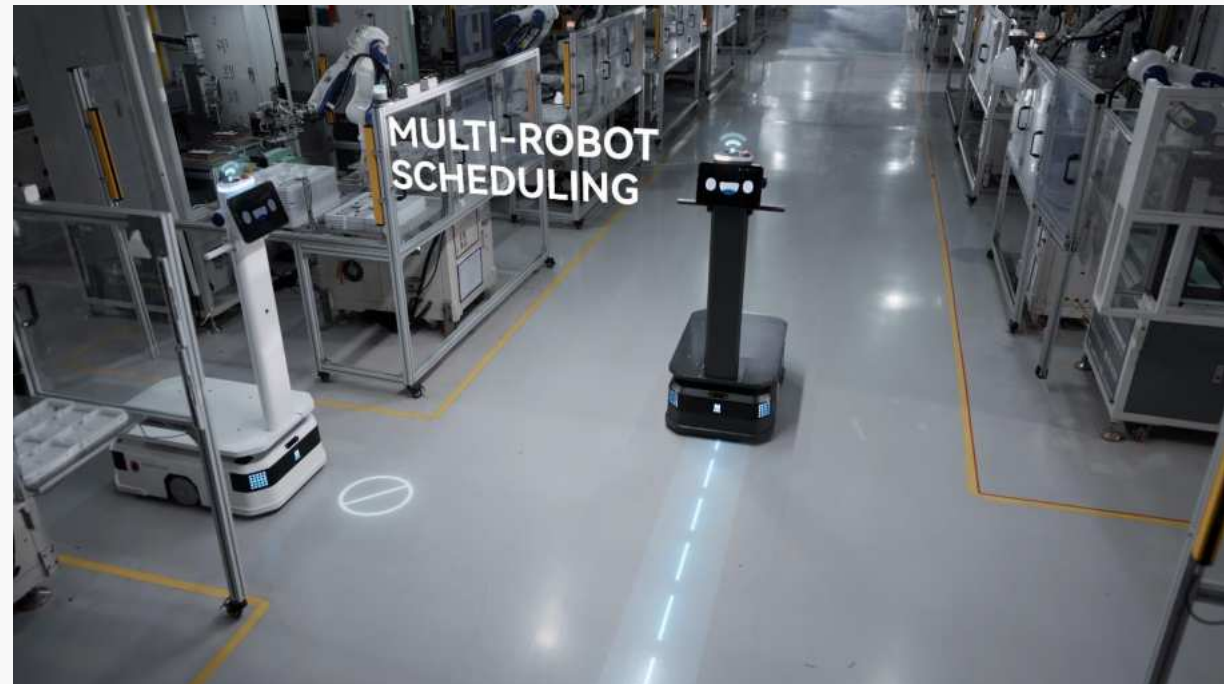
- The T300 industrial delivery robot sets a high standard in safety, meeting the stringent ISO 3691-4 guidelines for industrial vehicles. Its advanced safety features ensure reliable operation within the ever-changing landscape of factory settings.
- At the heart of its safety suite are cutting-edge 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

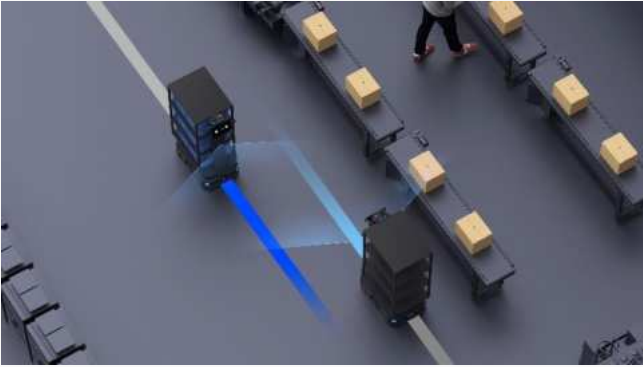
PUDU Scheduler System

- 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



Shelf 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



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.

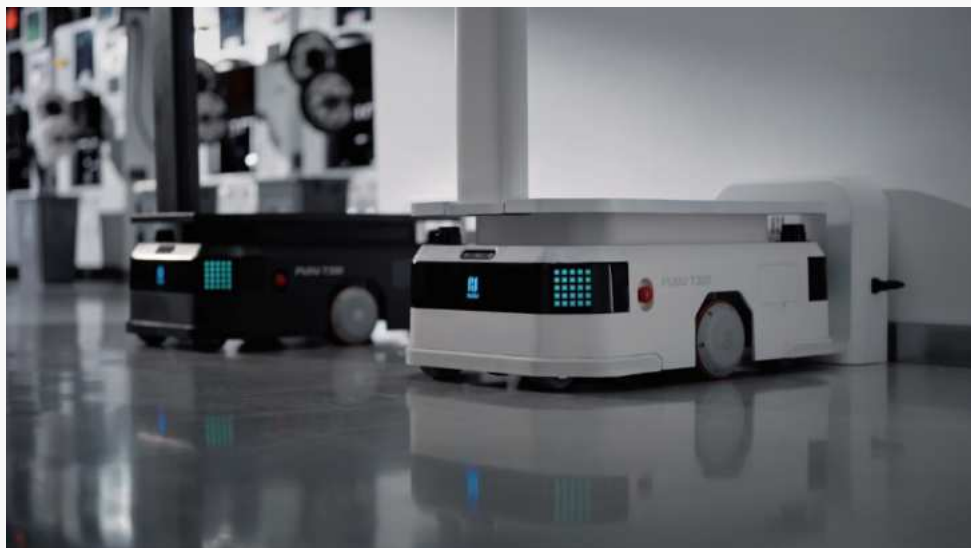




Round-the-clock Operation

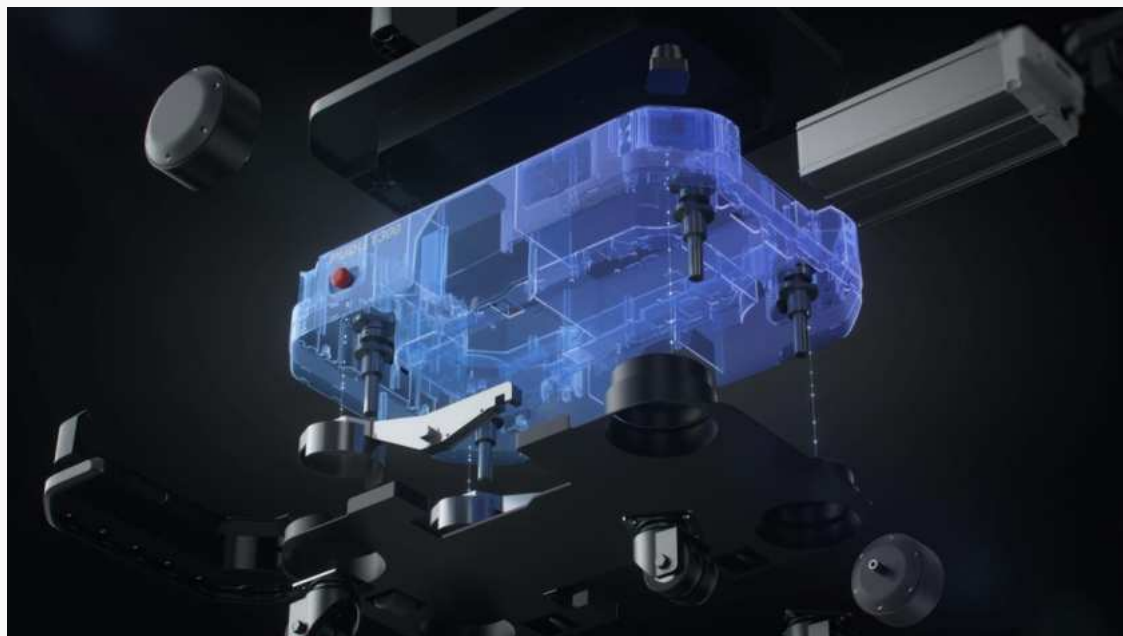
24/7 Non-stop Operations

- **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



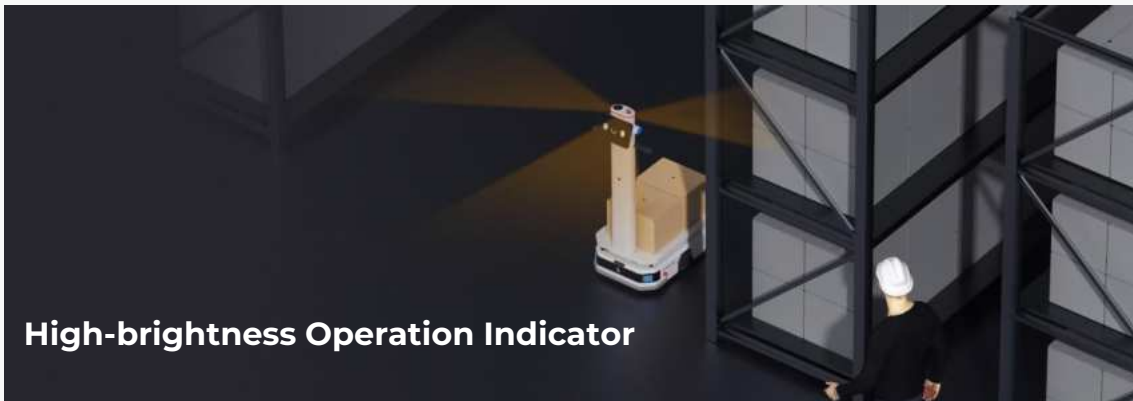
Traffic Signal Lights



Audible Alerts



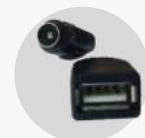
High-brightness Operation Indicator



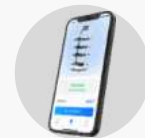


IOT Capabilities

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



PDUD Link (App)



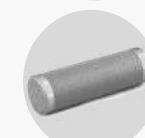
Pager



Elevator Control Module



E-gate Control Module



Bluetooth Speaker



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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 70,000 units to a variety of markets, with a presence in more than 60 countries and regions worldwide.

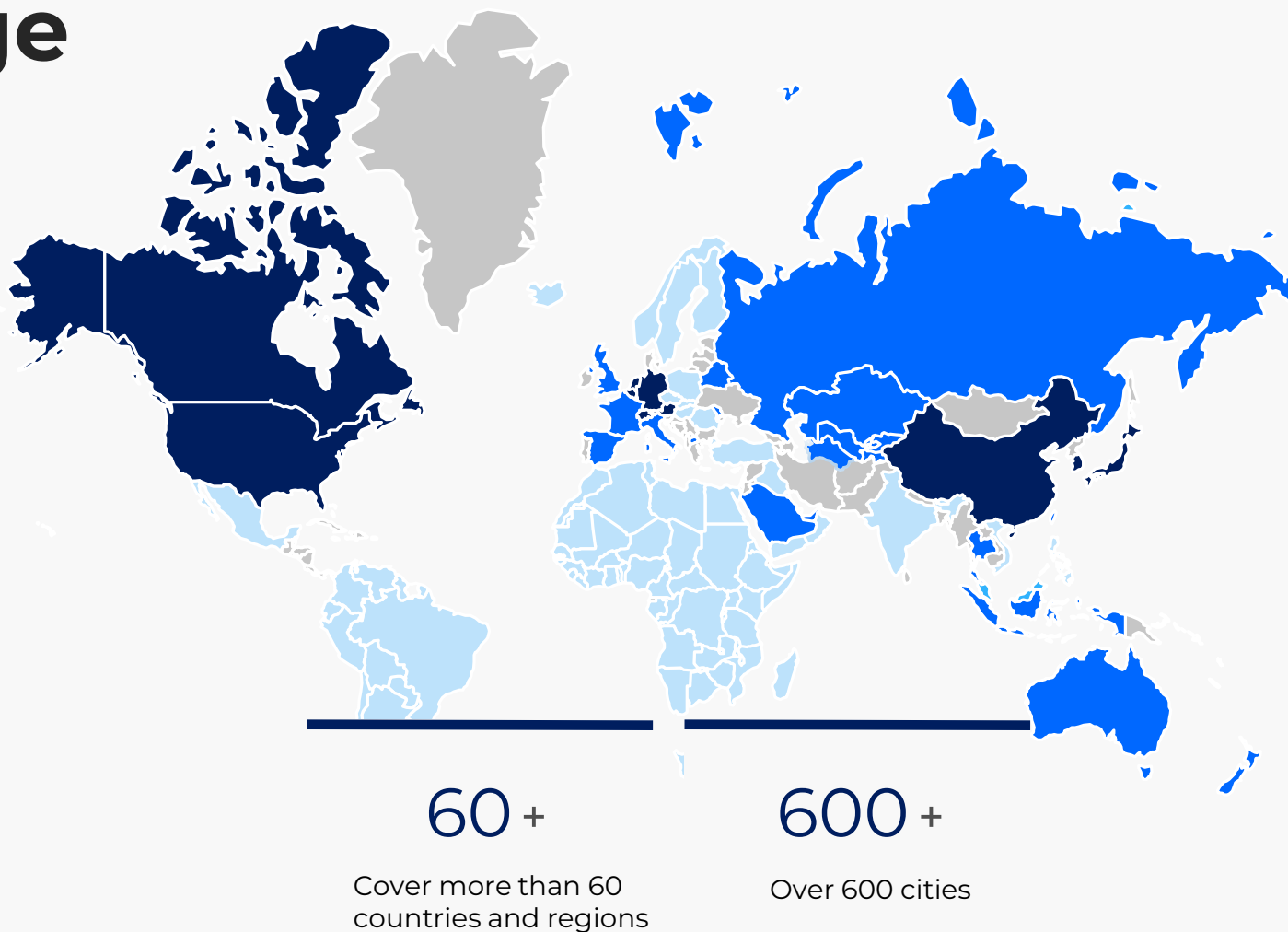




Scale Advantage

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.



* Relevant statistics as of Jan. 2024

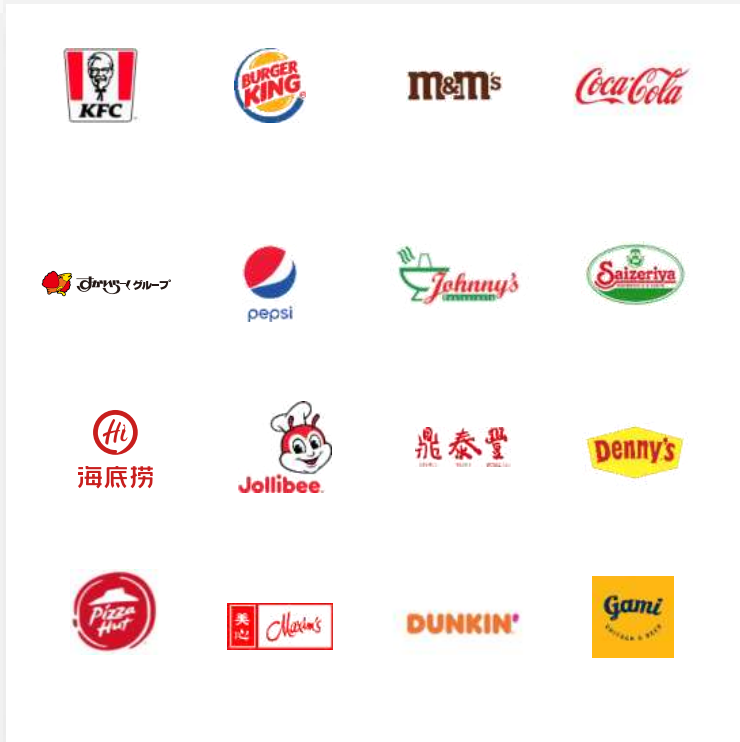


Cooperation

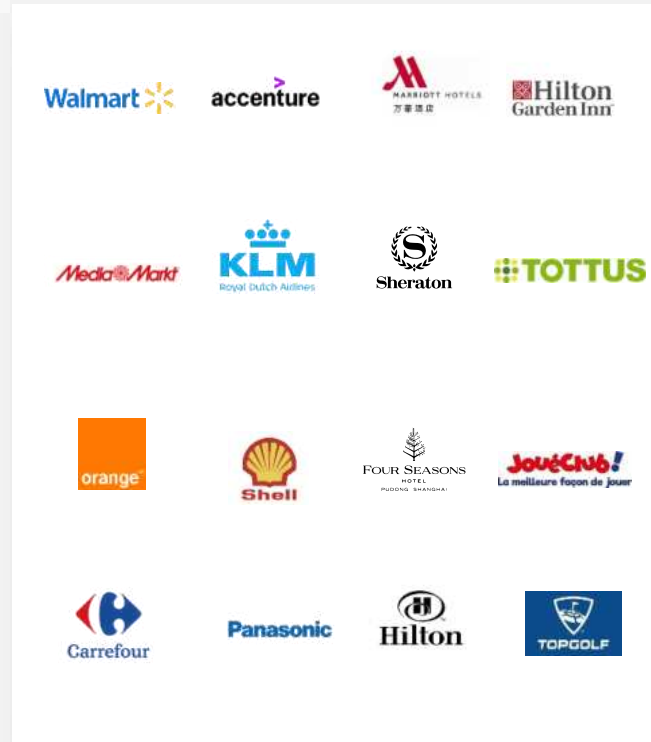
80%

The market share of Top 100 restaurant clients

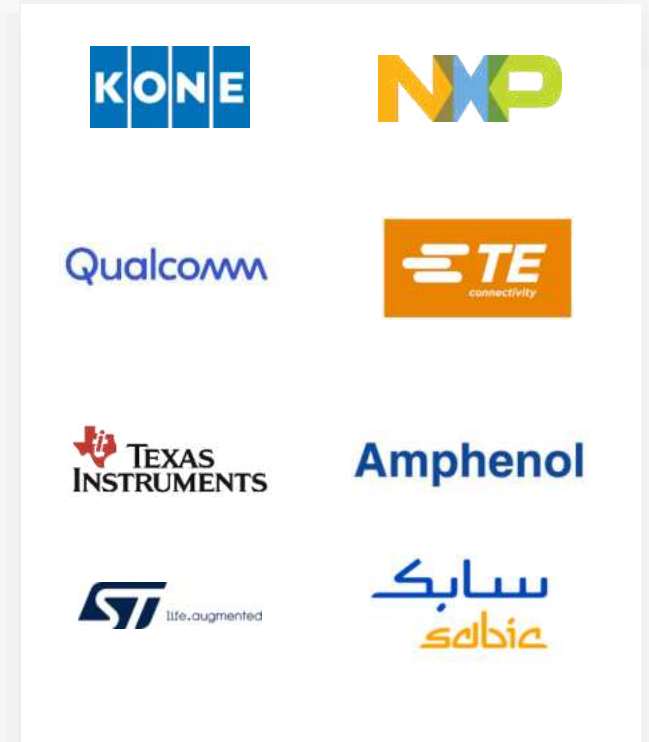
40,000+ Deployed Store



Catering Partners



Non-Catering Partners



Software and Hardware Partners



Media Coverage

stuff life & style

Robot waiter helps ease staff shortages in busy Northland restaurant

Deiver Piller - 14:32, Jan 14, 2022



Vikas Sharma, owner of Green's Thai Cuisine in Pahiā, 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 Pahiā 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.

MailOnline Science & Tech

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.



CGTN

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



Robotics, the global leader in commercial service robots, has introduced its next-generation service robot with its new ultra-CI cleaning robot, which made its global debut in May 2021. The new commercial appearance of the ultra-CI service robot will allow users to take the commercial cleaning robot market, so it works to explore applications of digital technology to improve and modernize 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. 18, 2021 | Updated 9:28 a.m. ET Aug. 18, 2021

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



ABC

First robot waiter in Tasmania glides into service

On your afternoon with Megan Street

Share

There are definitely echoes of The Jetsons as 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 Pie is a software engineer who loves new technology, and when he first came across the robot waiter online (this model is called Pudu), he saw it as a great, cost-effective service solution for Tasmania. Harry founded Tai Robotics, and suggested his friend Tom, who runs Kizabira Japanese, might like to add one to his floor staff. Press play for lunch with a slice of the latest technology.





THANK YOU



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