



PuduBot 2

Universal Delivery Robot

— Relay of classic —



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Product Overview

PuduBot 2

PuduBot 2, the newly upgraded delivery robot from Pudu Robotics, inherits excellent features and functions from PuduBot.

PuduBot 2 is committed to realizing intelligent deliveries in all scenarios, promoting the application of service robots and accelerating the overall robot development with higher performance, better functional extendability, environmental adaptability and reliability in use.



Product Overview

10-inch Interactive Screen

Aluminum Machine Body

Adjustable Trays

Upper Lidar

Wide FOV RGBD

Lower Lidar

Visual Camera

USB Interface

Industry-leading
Chassis System

25.6Ah Li-ion Battery

Automatic Charging





Product Overview

Dimension	580mm*535mm*1290mm (22.8in*21.1in*50.8in)
Machine Weight	39kg (86lbs)
Tray Size	500mm*435mm (19.7in*17.2in)
Single Tray Load	Maximum 13kg (Max. 28.7lbs)
Maximum Loads	40kg (88lbs)
Battery Life	12h(full load) ,15h(none load)
Charging Time	4h
Path Clearance	80cm (31.5in)
Cruise Speed	0.5m/s~1.2m/s (1.64ft/s-3.94ft/s)
Obstacle Negotiation Height	10mm (0.39in)
Climbing Angle	≤5°
Positioning Method	PUDU VSLAM+ & Laser SLAM
Dispatching	Maximum 20
Charging	Wire or Automatic



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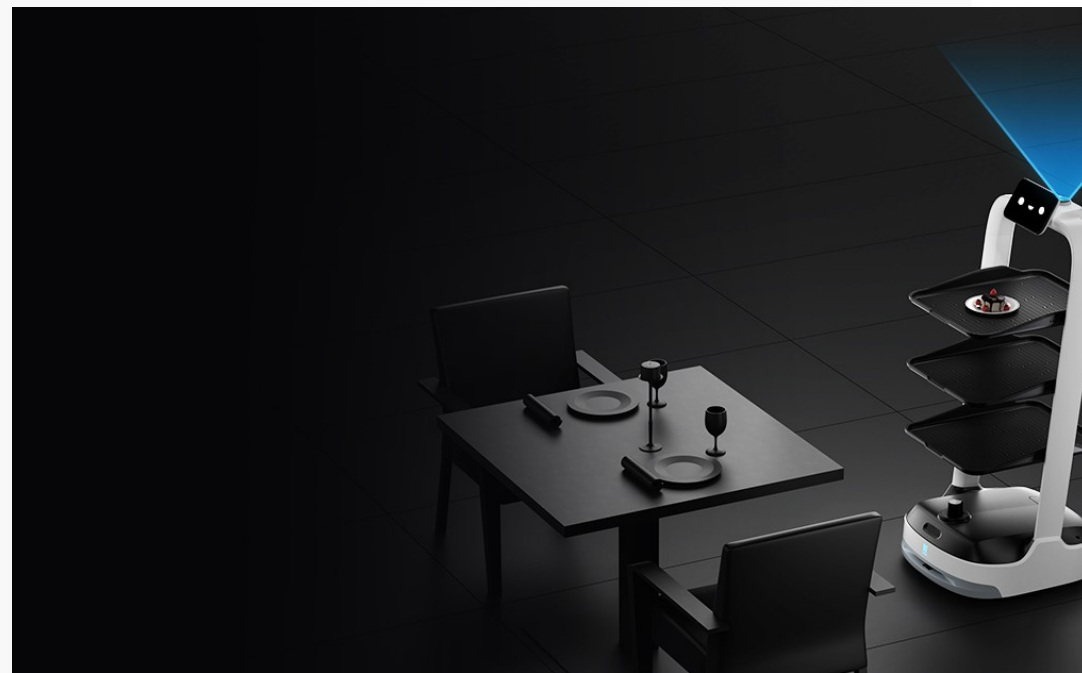


Key Features

PUDU VSLAM+

New generation of PUDU VSLAM technology

- Marker-less deployment, reducing 75% deployment time
- Comfortable operation even in high ceiling environment up to 30 meters
- Extra large scene mapping for up to 40,000 m²
- Improved stability with fewer changes of the positioning reference
- Greater adaptability of different scenarios under different light conditions

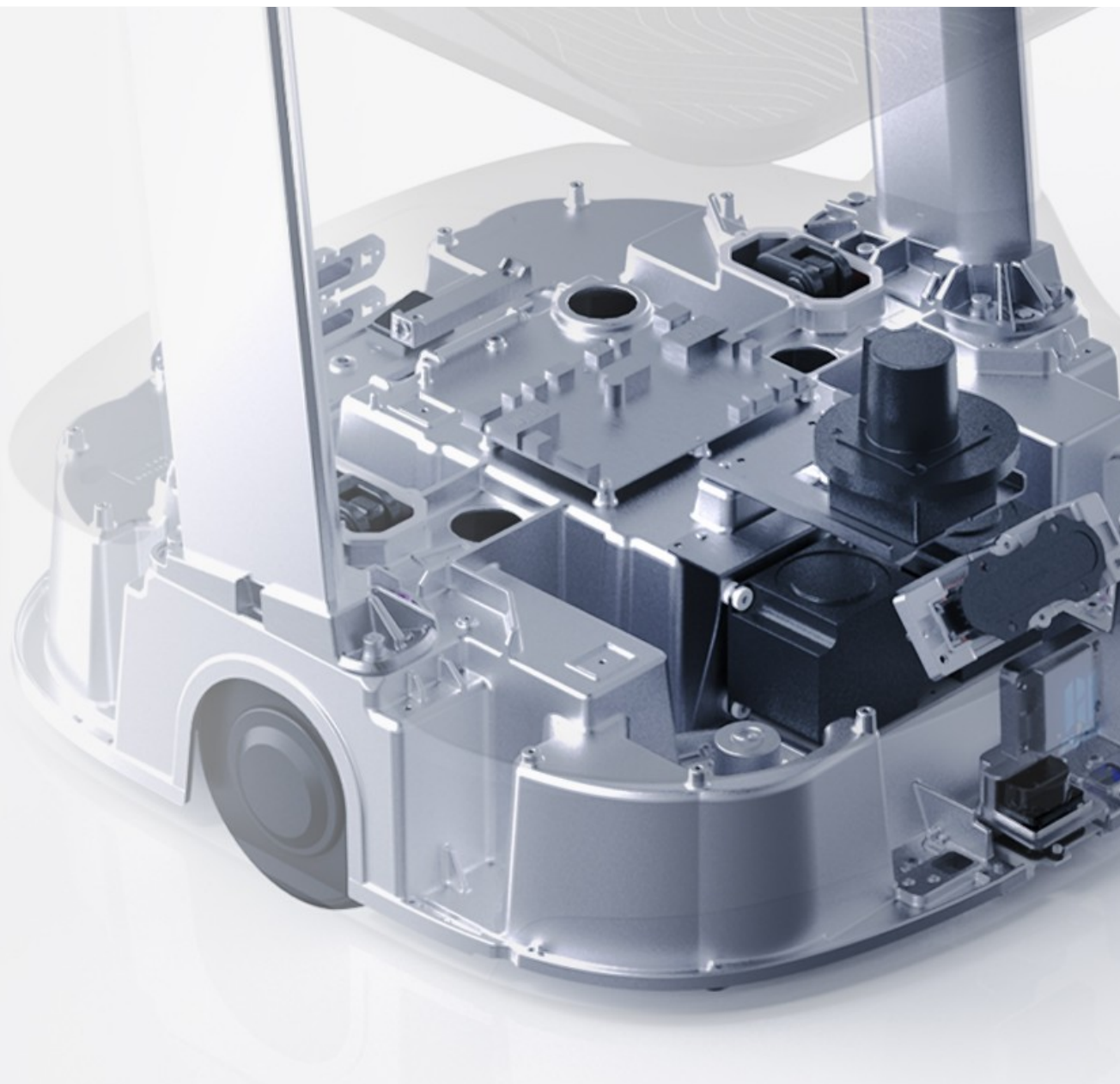


Key Features

PUDU-developed Servo In-wheel Motor
Cost Reducing, Efficiency Boosting

- 33% increasement in load capacity
- 16% improvement in energy utilization
- Excel in both performance and energy saving

*Source: PUDU Lab



Key Features

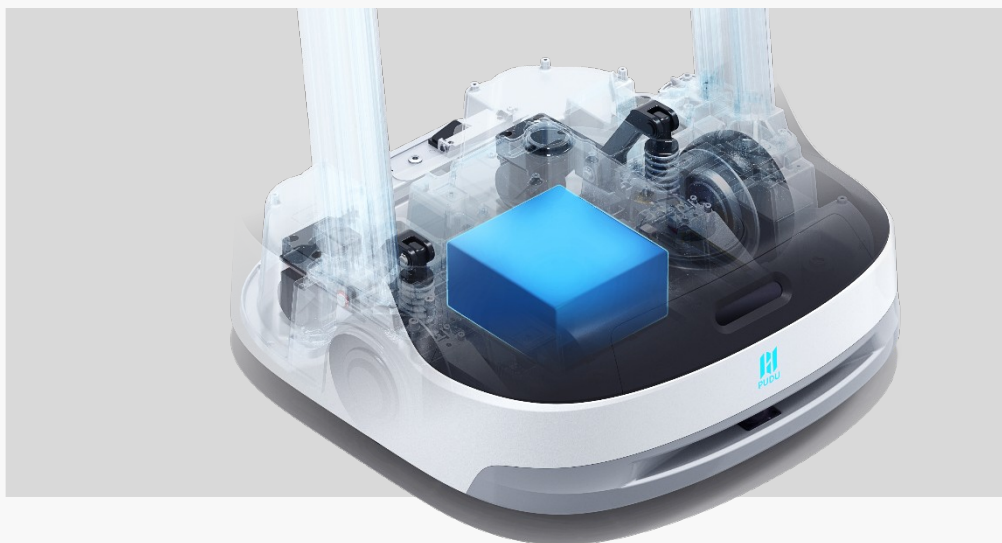
Dual Lidar, Precise Perception More Reliable, More Secure

- Dual-Lidar system provides PuduBot 2 the ability of 360 degree sensing, with environmental features in full view
- The upper lidar is responsible for distance detection, with an effective obstacle avoidance capability within **0.8m** (at a load of 40kg and 1.2m/s travel speed)
- The lower lidar is responsible for ground detection with the shortest detectable height of **8cm**



Key Features

High Performance Li-ion Battery



- Extended battery durance
- Operates up to 24h on a 4 hour charge
- 6X longer battery lifetime
- Enhanced safety and reliability

Automatic Charging



- Co-charging pile with other Pudu products
- Automatic recharge at set time or when battery level is lower than set threshold

Key Features

Multi-Modal Delivery

- One robot serves for multiple purposes

Multi-Table Delivery

- Serve several tables at one go



Food Delivery Mode



Delivery Mode



Cruise Mode



Direct Mode



Dish Return Mode



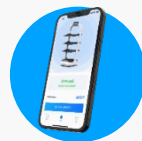
Birthday Mode

Meet the diversified delivery needs

Key Features

Calling and Notification

Autonomous and flexible, anytime and anywhere



Calling Robot

- Support PUDU Pager , PUDU Watch & PUDU Link
- Assign and manage tasks simply with one click



VIP Room Notification

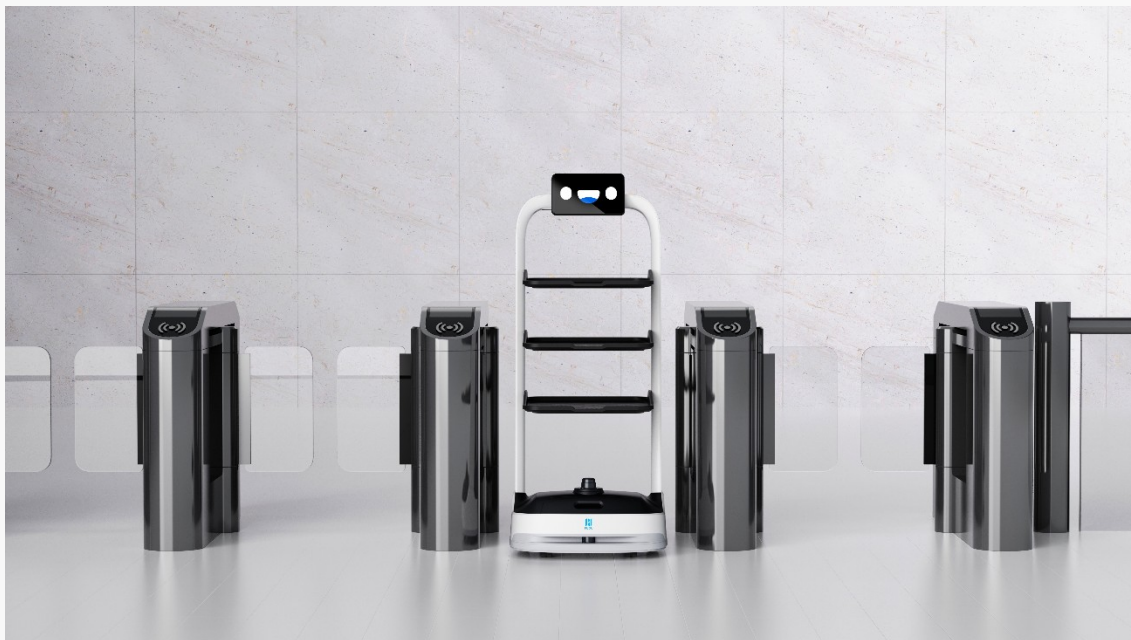
- Notify the guests on robot arrival
- Enable more efficient delivery service for private rooms



Key Features

Automated Pass-through

Safely and automatically pass through E-gates or Electric glass doors





Key Features

Fully Enclosed Machine Design



Machine Slit
 $\leq 1\text{mm}$



Effectively resist
dust and water



IP42 rated



Key Features

Multi-Robot Collaboration

- 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





Key Features

24 X 7 Management and Analysis

PUDU Merchant Management Platform

HOME

Data Center

Data report

My Robots

Robot Skills

Store Setting

Account Mana...

Data report

yesterdayLast 7 daysLast 30 days2022-04-01 → 2022-07-12All stores

cruise dataAttract customer dataInteractive dataAd dataGrid data

Running Mileage

10.9

Last Cycle 0

▲ 0%

Runtime

14.31

Last Cycle 0

▲ 0%

Interactive Visits

453

Last Cycle 0

▲ 0%

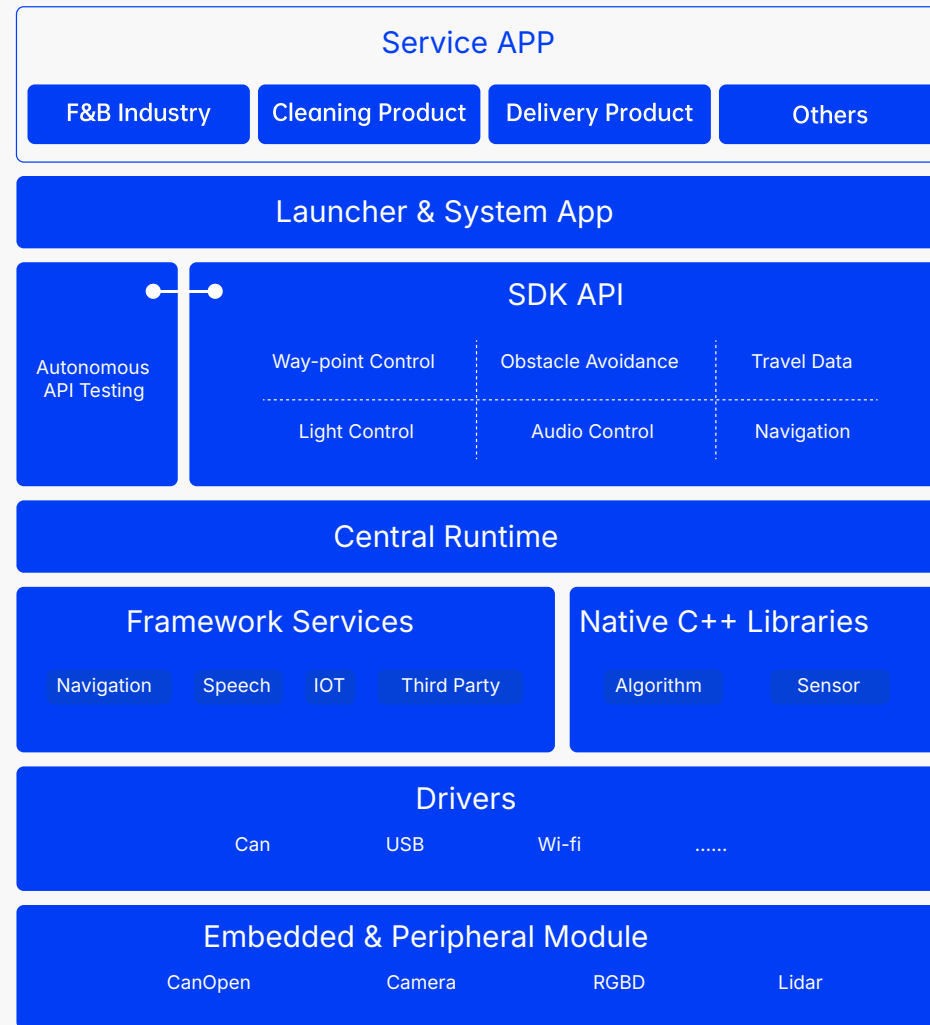
Store Name	Product Name	Machine MAC	Running Mileage
PuduBot 2 Amy	kettybot	08:E9:F6:09:CF:E6	10.9

Key Features

PUDU OS

All-inclusive Platform, Endless Capabilities

- PUDU self-developed integrated robot operating system platform based on various PUDU product with a powerful cloud platform
- PUDU self-developed security system with high credibility
- Open SDK API , support 3rd party integration and development



Key Features

Customization Services



Customized Sticker

- Create your exclusive Pudubot 2 for greater brand exposure
- Make your robot unique and eye-catching



Customized Voice Pack

- Online upgrade and real-time sync.

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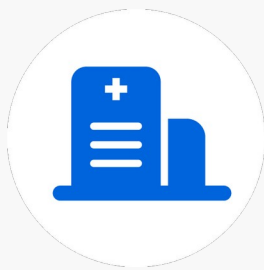
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Product Values

Multi-Industry, Multi-Scenario Coverage



Restaurant & Café



Hospital & Clinic



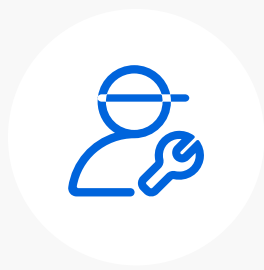
Hotel & Resort



Office



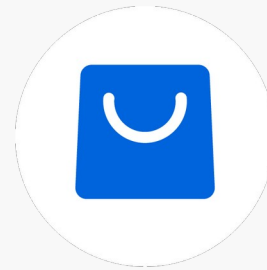
Senior Living



Manufacture



Entertainment & Leisure



Retail

Product Values

Keep up with Trend of Restaurant Automation

Restaurant Automation is the use of automated or robotic technology to complete tasks throughout the restaurant and facility in order to simplify ordering, meals preparing, food delivery and bill payment.

Embedded in strong foundations and in-depth understanding of catering industry, PuduBot 2 possesses the significant features to streamline the food delivery services. And the powerful multi-robot dispatch system distinctly cuts down on the human labor required to stay up and table running.



Product Values

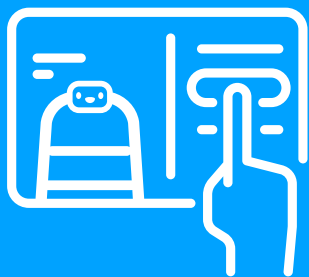
Mitigate Labor Shortage

Deploying robots to replace the 4-D jobs (Dull, Duplicate, Dirty and Dangerous) is trendy and will become ubiquitous in future. With the help of robots, employees may focus more on the high-value work and have a better work environment, which results in better work experience and satisfaction.

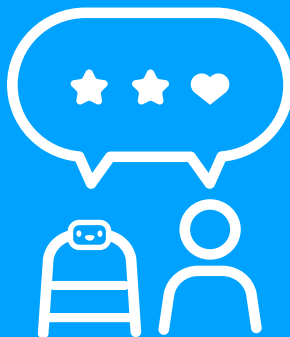
Product Values

Revolutionize Customer Experience

Commercial robots are being successfully integrated into different hospitality organizations or retail stores to improve customer experience.



Streamlining underlying processes



Reducing friction to create the sense of seamlessness and delight



Boosting customer experience by re-allocating more humans into front-facing roles

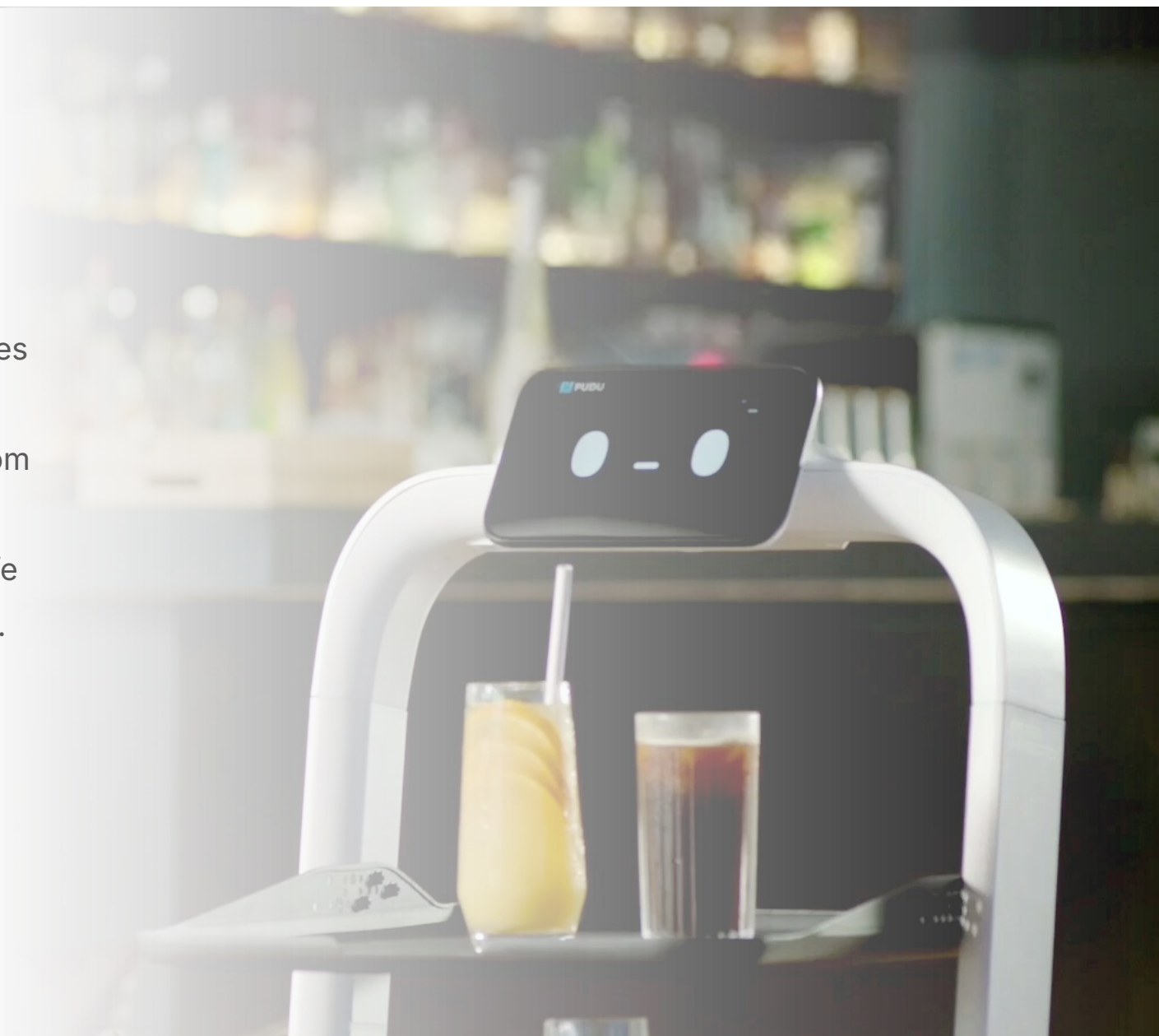


Enhancing customer journey by providing innovative experience

Product Values

Contact-free Delivery

PuduBot 2 supports pager function and receives remote operation commands. In different use scenarios, PuduBot 2 can receive demands from the pagers and collects the dishes or items automatically, providing a contact-free and safe experience while improving delivery efficiency.



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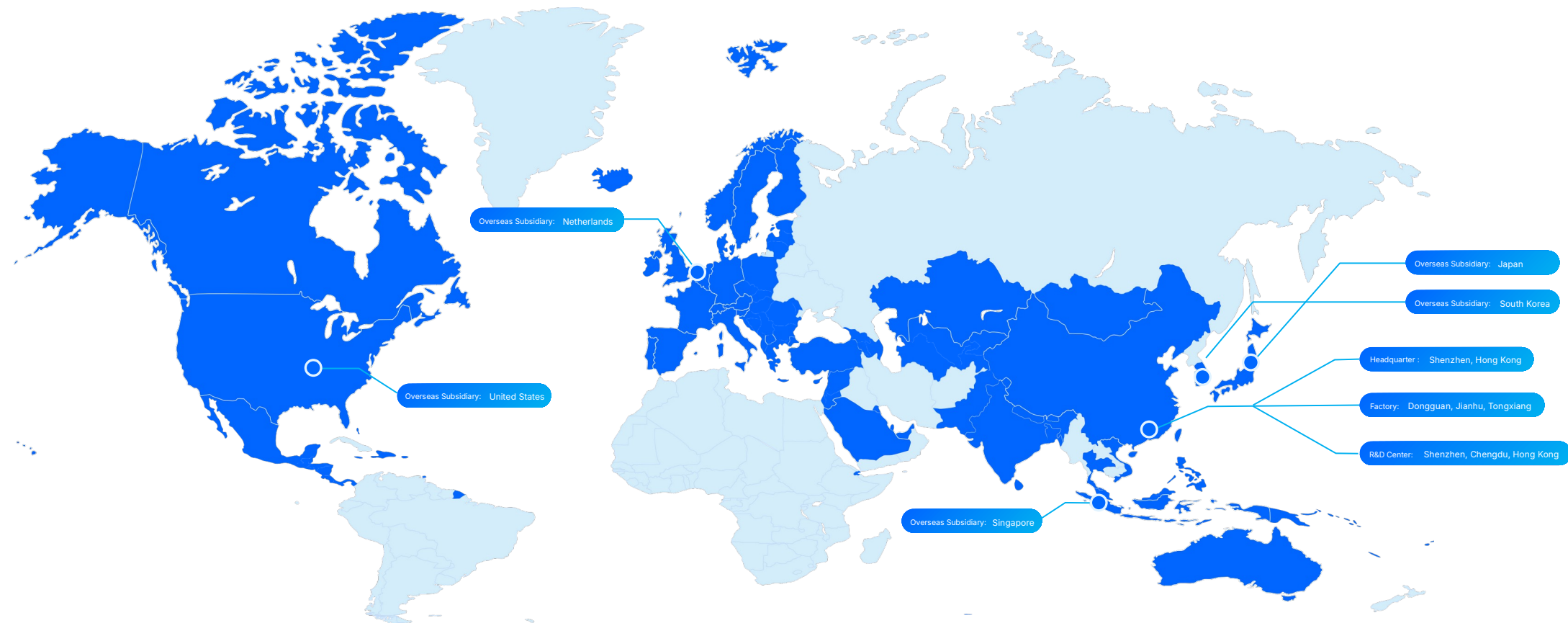
Pudu Robotics, a [global leader in the service robotics sector](#), is dedicated to enhancing human productivity and living standards through innovative robot technology.

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 has successfully shipped [over 90,000 units](#) to a variety of markets, with a presence in [more than 60 countries and regions worldwide](#).



Global Footprint



60+ Countries and Regions Covered

600+ Cities Covered

700+ Global Distributors

Honor and Awards

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



reddot winner 2023



reddot award
best of the best



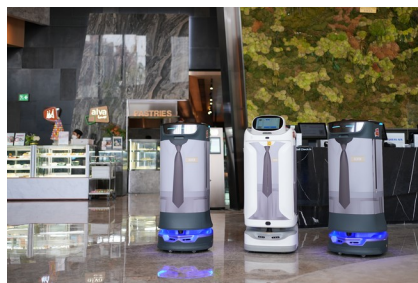
GOOD DESIGN
AWARD 2022



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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