



# *PuduBot 2*

## Universal Delivery Robot

— Relay of classic —



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# Product Overview

## ***PuduBot***





# 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





# 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	$\leq 5^\circ$
Positioning Method	PUDU VSLAM+ & Laser SLAM
Dispatching	Maximum 20
Charging	Wire or Automatic



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# Key Features

## **PUDU SLAM**

### **Fusing laser and visual positioning & navigation technology**

- Support Laser SLAM, PUDU VSLAM+, or Fusion (Laser & VSLAM+)
- Position and navigate with ease in complex and dynamic environment
- Enhanced positioning, perception and route planning efficiency



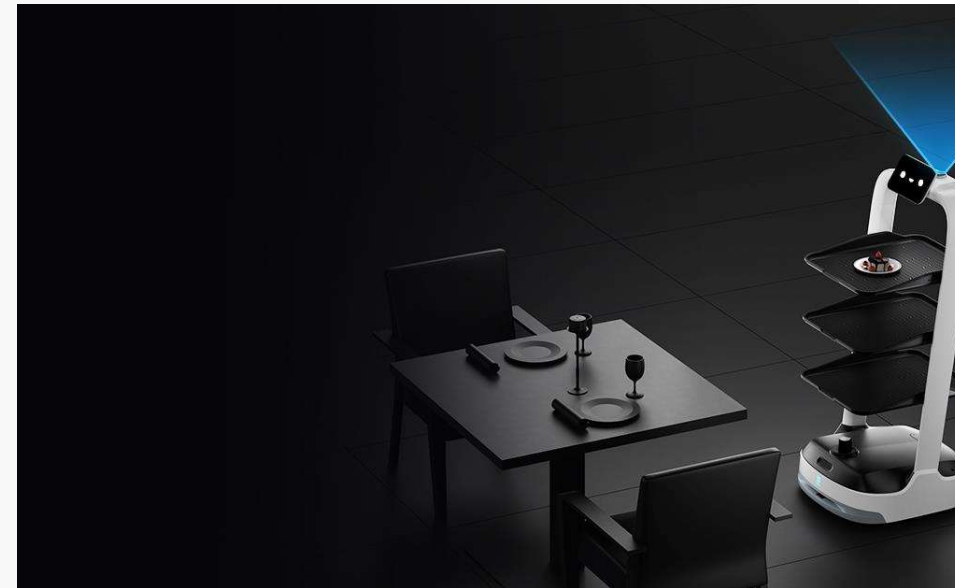


# Key Features

## 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 **40,000m<sup>2</sup>**
- Improved stability with fewer changes of the positioning reference
- Greater adaptability of different scenarios under different light conditions



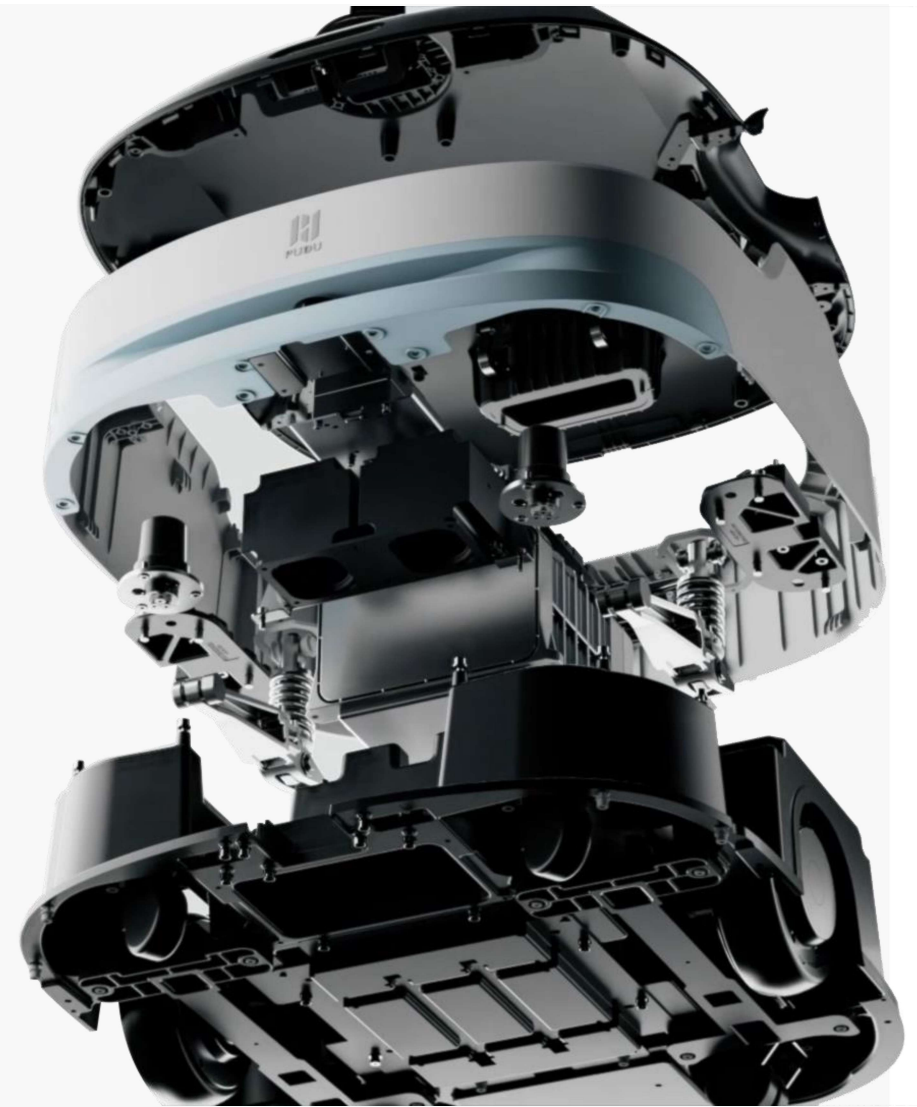


# Key Features

## Industry-leading Chassis System Better Stability, Better Performance

- Highly integrated chassis with newly upgraded vertical linkage suspension system
- Significantly improved obstacle-crossing capability
- Adapt to different road surfaces, **30%** improvement in moving stability
- Smooth mobility even with bumpy roads

\*Source: PUDU Lab



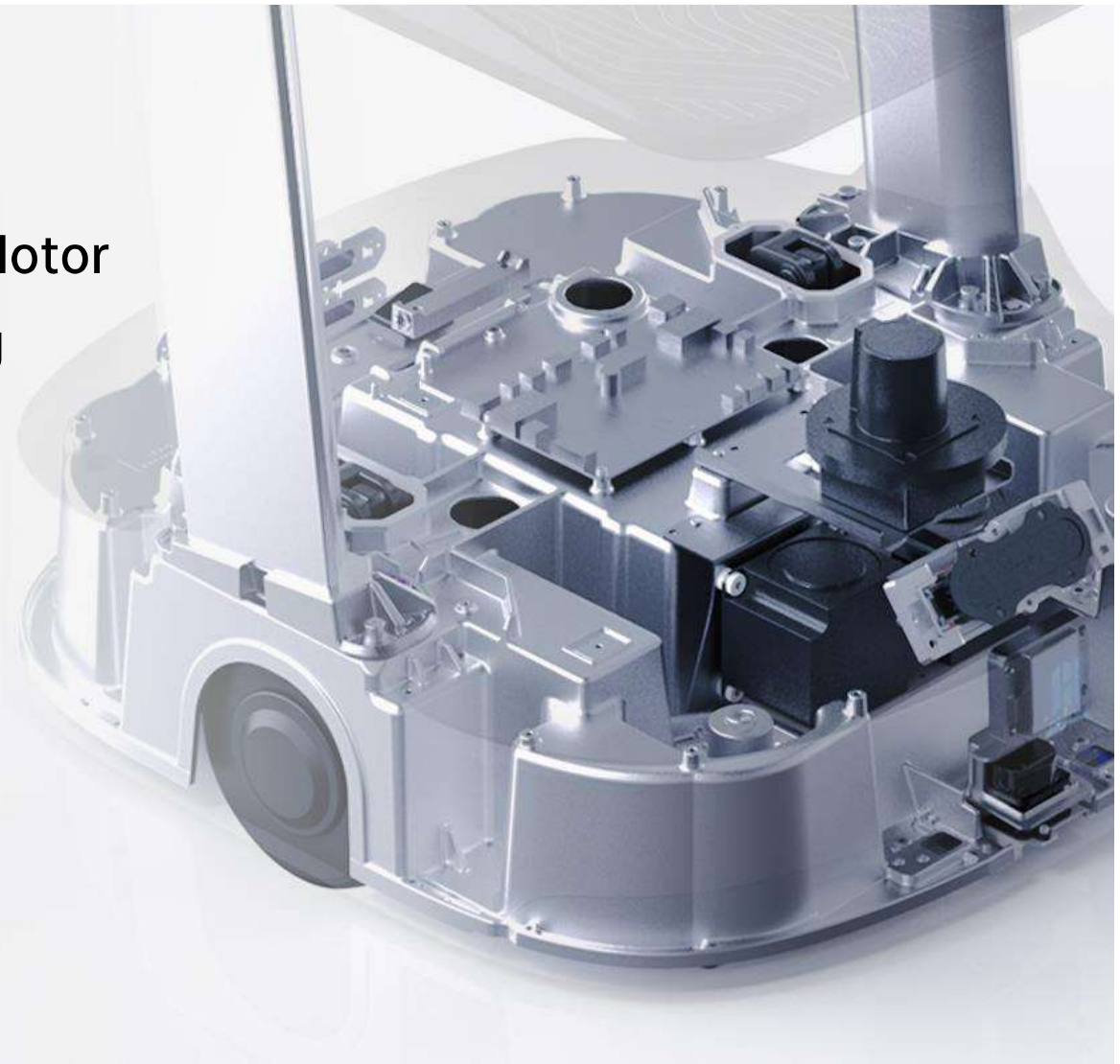


# Key Features

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

- 33% increase 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

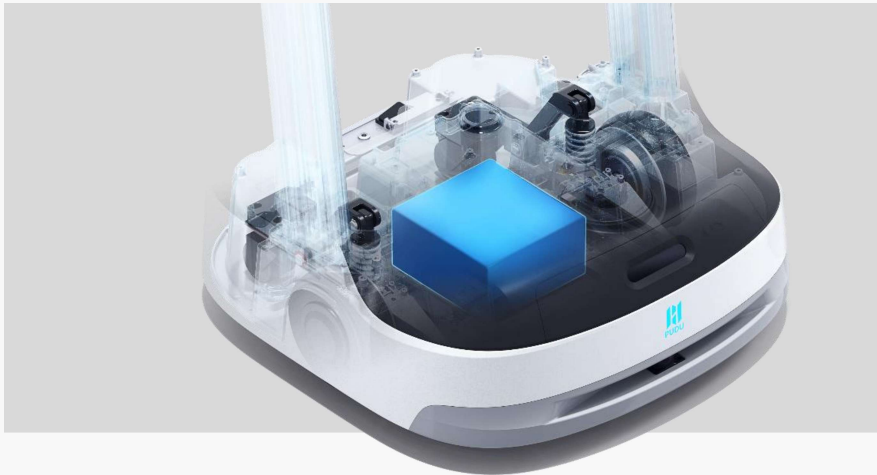
- Dual-Lidar system provides PuduBot 2 the ability of 360 degree sensing, with environmental features in full view
- The upper lidar is responsible for distance detection, with an effective obstacle avoidance capability within **0.8m** (at a load of 40kg and 1.2m/s travel speed)
- The lower lidar is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





# Key Features

## High Performance Li-ion Battery



- Extended battery duration
- 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



Food Delivery Mode



Delivery Mode



Cruise Mode



Direct Mode



Dish Return Mode



Birthday Mode

## Multi-Table Delivery

- Serve several tables at one go

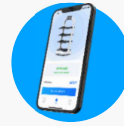
Meet the diversified delivery needs



# 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

yesterday | Last 7 days | Last 30 days | 2022-04-01 → 2022-07-12 | All stores

**cruise data** | Attract customer data | Interactive data | Ad data | Grid data

<b>Running Mileage</b> 10.9 Last Cycle 0 ▲ 0%	<b>Runtime</b> 14.31 Last Cycle 0 ▲ 0%	<b>Interactive Visits</b> 453 Last Cycle 0 ▲ 0%
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Store Name	Product Name	Machine MAC	Running Mileage
PuduBot 2 Amy	kettybot	08:E9:F6:09:CF:E6	10.9

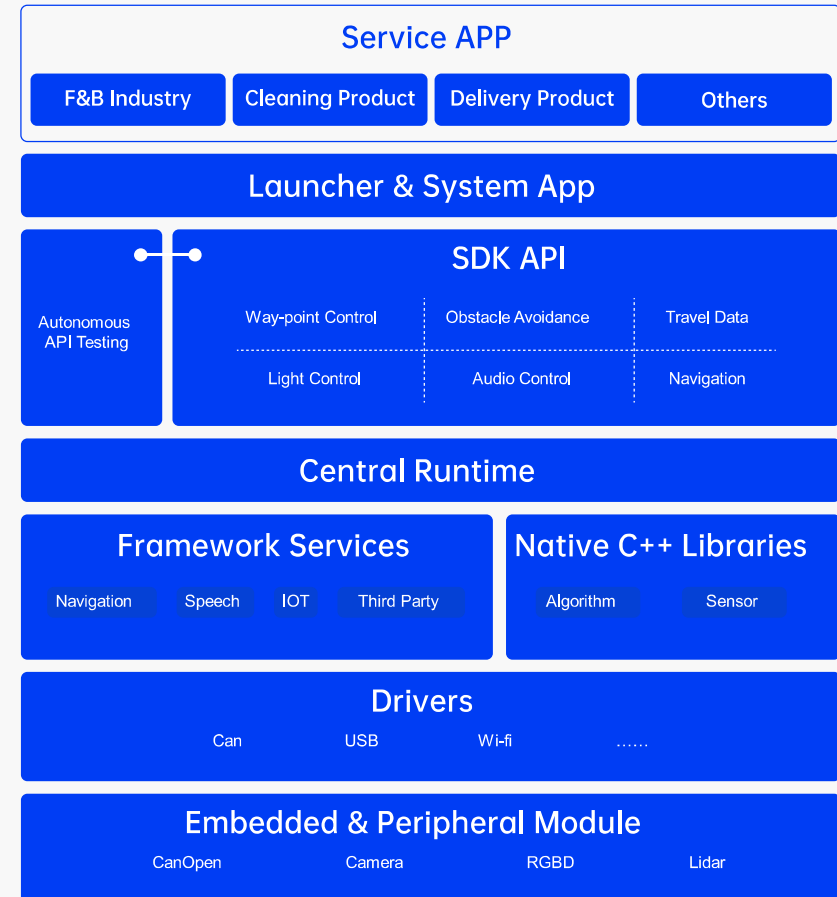


# Key Features

## 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 3<sup>rd</sup> party integration and development





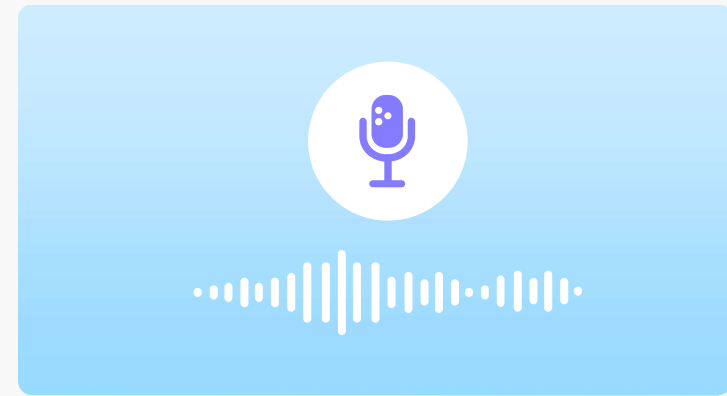
# Key Features

## 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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# Product Values

## Multi-Industry, Multi-Scenario Coverage



Restaurant & Café



Hospital & Clinic



Hotel & Resort



Office



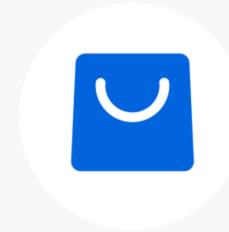
Senior Living



Manufacture



Entertainment & Leisure



Retail

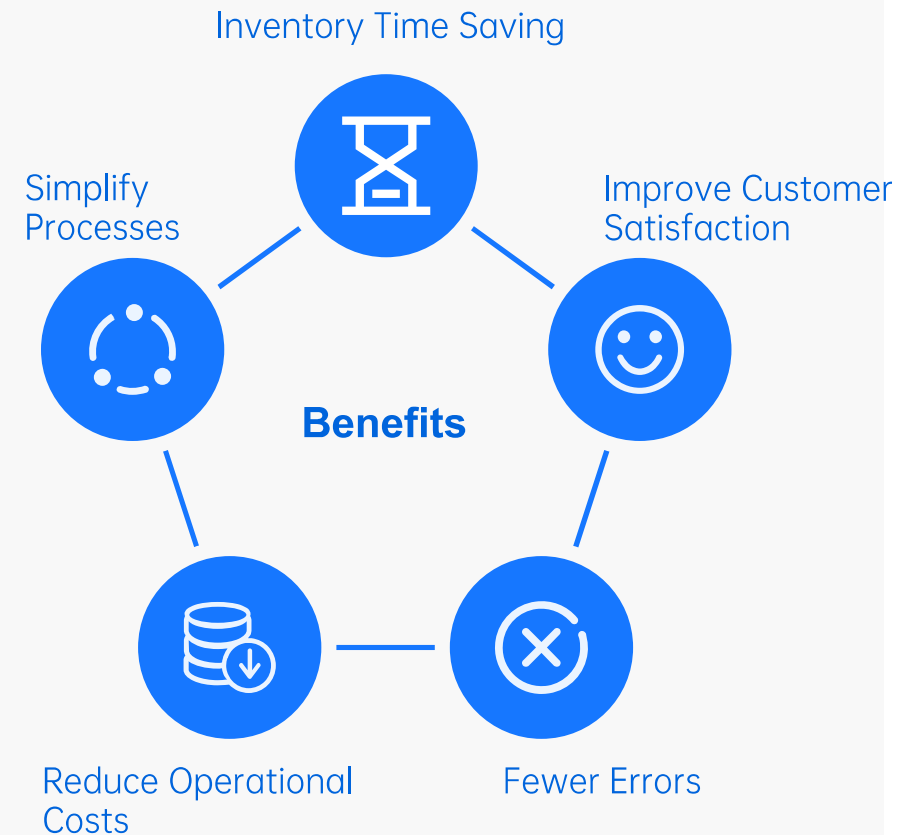


# Product Values

## 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

The pandemic has been hugely devastating to the labor market and fundamentally altered the industries and locations where would-be employees want to work. Employers are struggling in looking for and retaining qualified staffs.

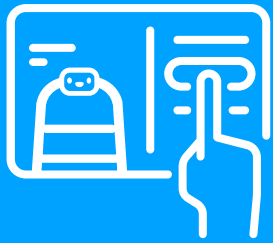
Deploying robots to replace the 4-D jobs (Dull, Duplicate, Dirty and Dangerous) is trendy and will become ubiquitous in future. With the help of robots, employees may focus more on the high-value work and have a better work environment, which results in better work experience and satisfaction.



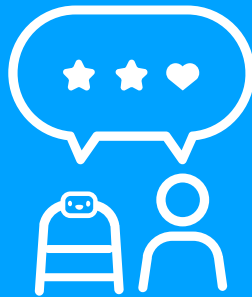
# Product Values

## 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

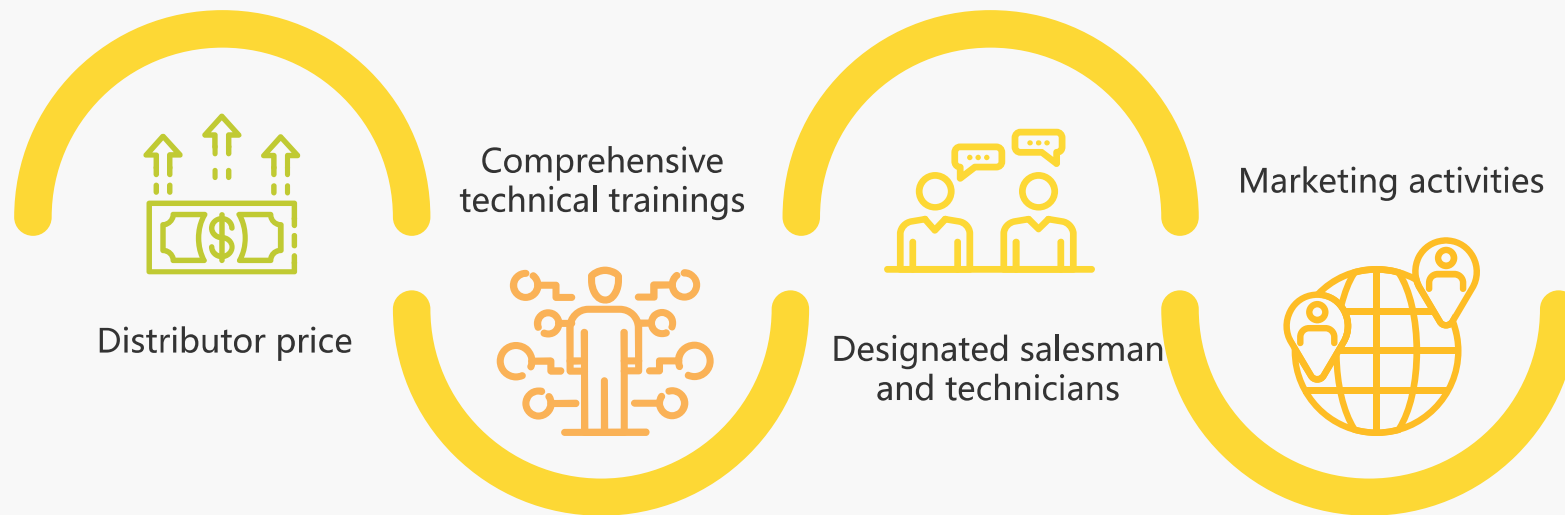


Enhancing customer journey by providing innovative experience



# Your Reliable Business Partner Build the future together

Solid partnerships starts with a shared commitment to providing superior value to you, we will support you as followed:

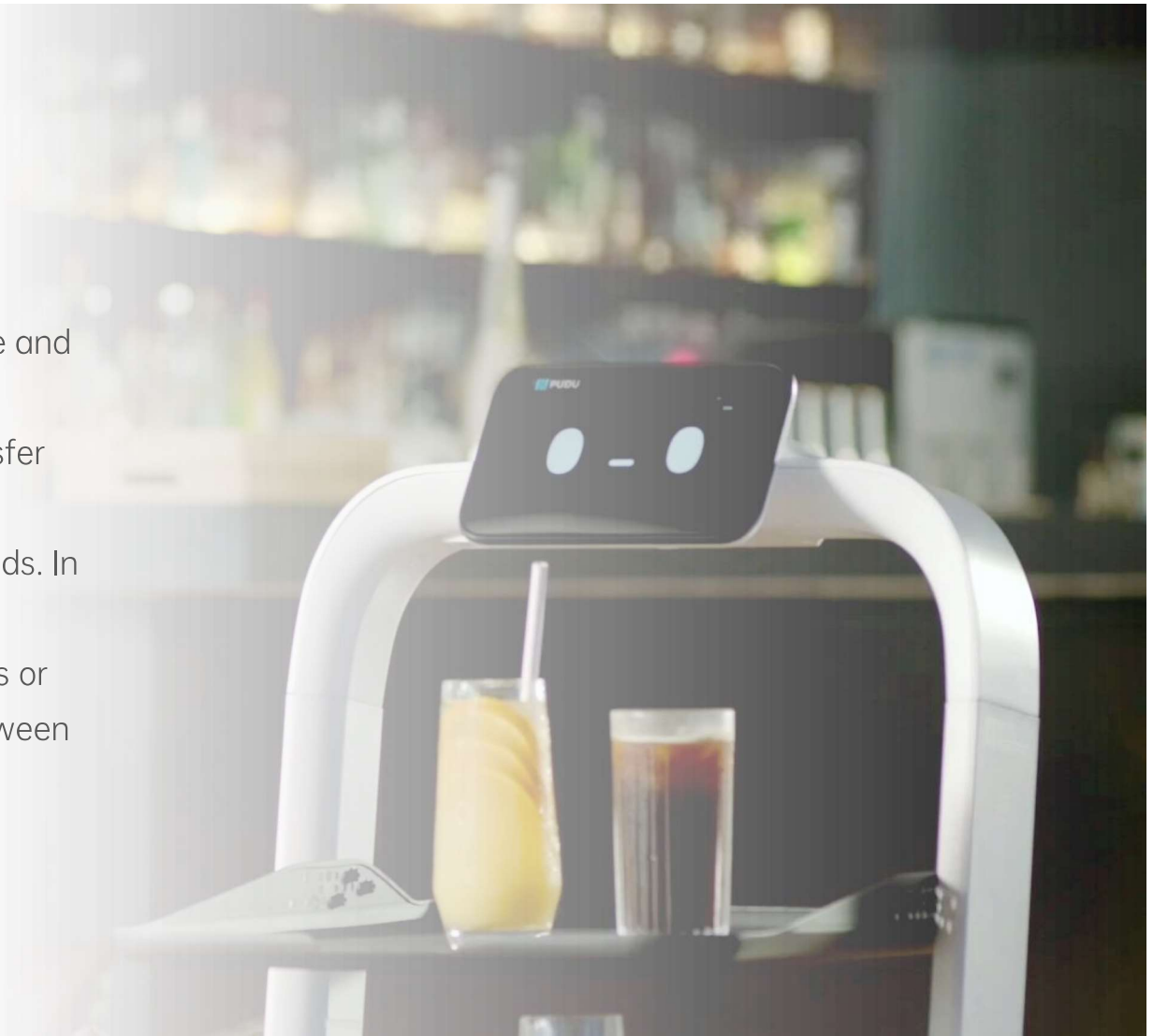




# Product Values

## Contact-free Delivery

The COVID-19 profoundly changes our way of life and production and lots of restaurants have offered contact-free delivery to guarantee the safe transfer of food nowadays. 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, reducing contagion risk between people while boosting delivery efficiency.



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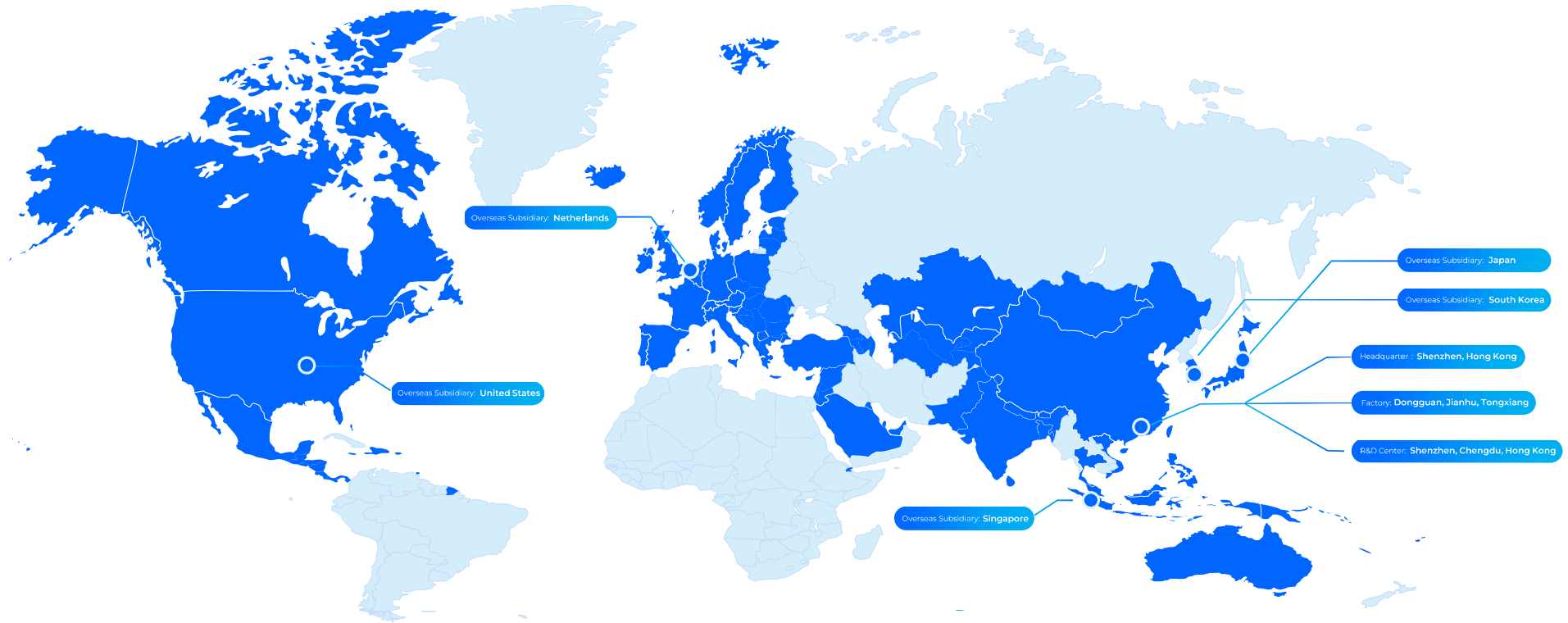
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Pudu Robotics, a [global leader in the service robotics sector](#), is dedicated to enhancing human productivity and living standards through innovative robot technology.

With a focus on R&D, manufacturing, and sales of service robots, Pudu 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 [nearly 80,000 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.

 <p>reddot winner 2023</p> 	 <p>reddot award best of the best</p> 	 <p>GOOD DESIGN AWARD 2022</p> 	 <p>DESIGN AWARD 2023</p> 	 <p>INTERNATIONAL DESIGN EXCELLENCE AWARDS</p> 		
 <p>WIPO Global Awards Finalists</p>	 <p>FST COMPANY INNOVATION BY DESIGN 2024</p>	 <p>CES</p>	 <p>IFEX Innovation Awards 2022</p>	 <p>HIP Horeca Professional Expo HOSPITALITY INNOVATION PLANET</p>	 <p>COMMERCIAL KITCHEN INNOVATION CHALLENGE GOLD WINNER 2022</p>	 <p>THE IFSA'S THE IRISH FOODSERVICE SUPPLIER AWARDS BEST FOODSERVICE TECHNOLOGY PRODUCT - FRONT OF HOUSE 2023</p>



## 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