PUDU

PuduBot 2
Universal Delivery Robot
— Relay of classic —

Content. PuduBot 2

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

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

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PuduBot 2

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 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 **40,000㎡**

- Improved stability with fewer changes of the positioning reference

- Greater adaptability of different scenarios under different light conditions
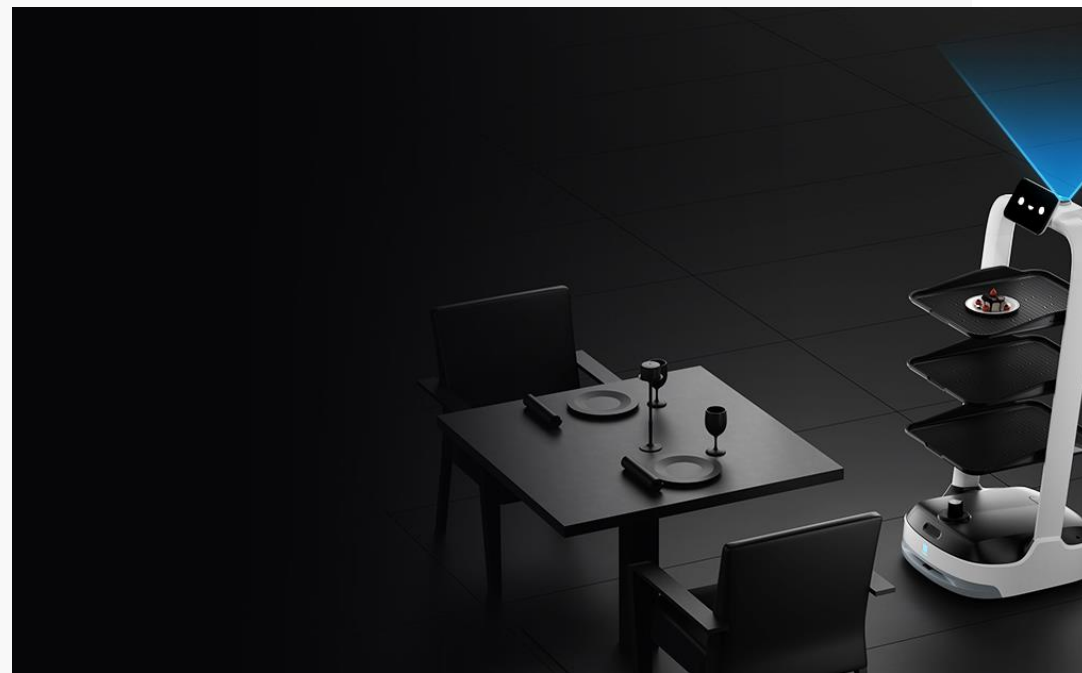
Key Features

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
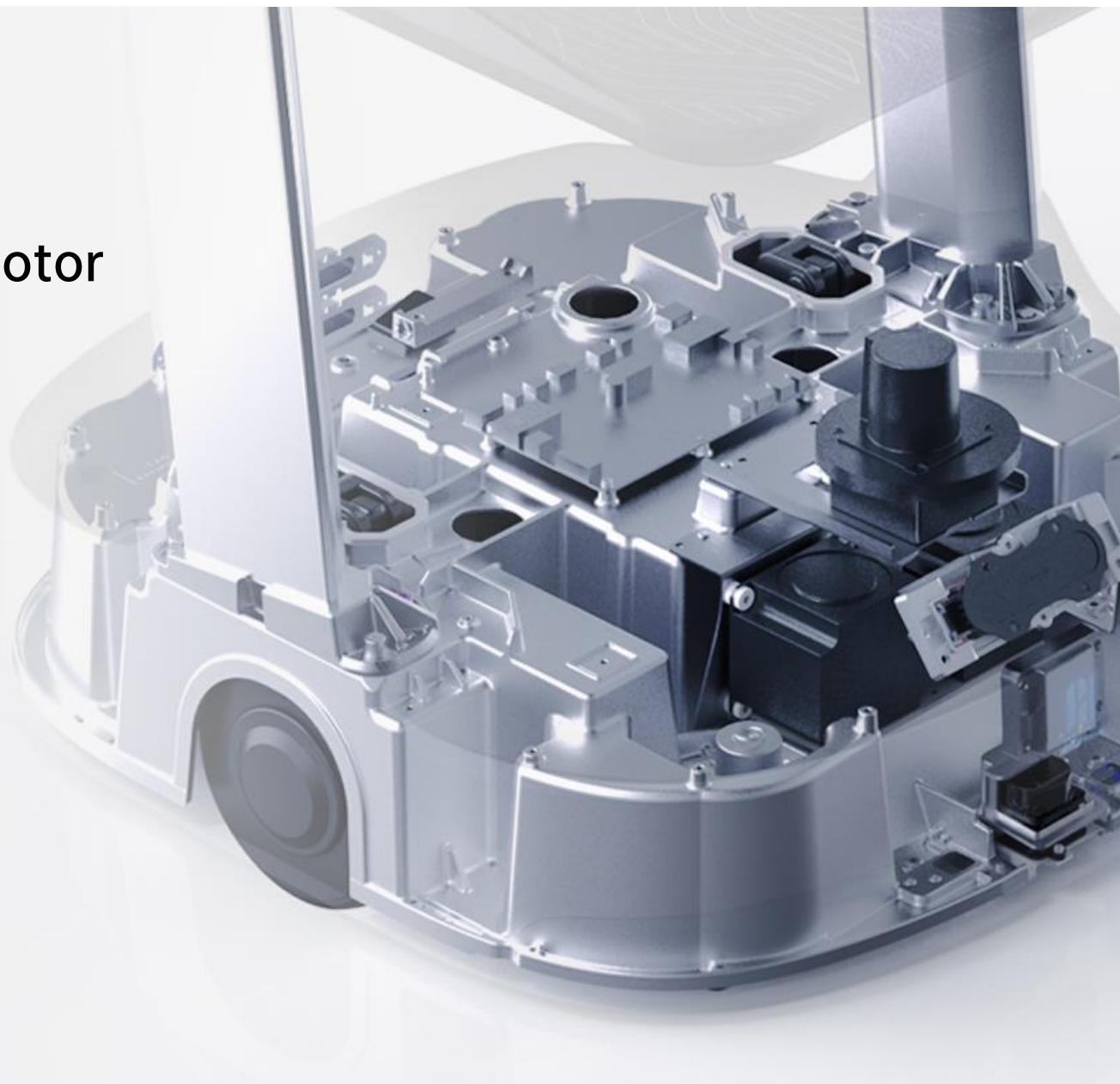- Smooth mobility even with bumpy roads

*Source: PUDU Lab
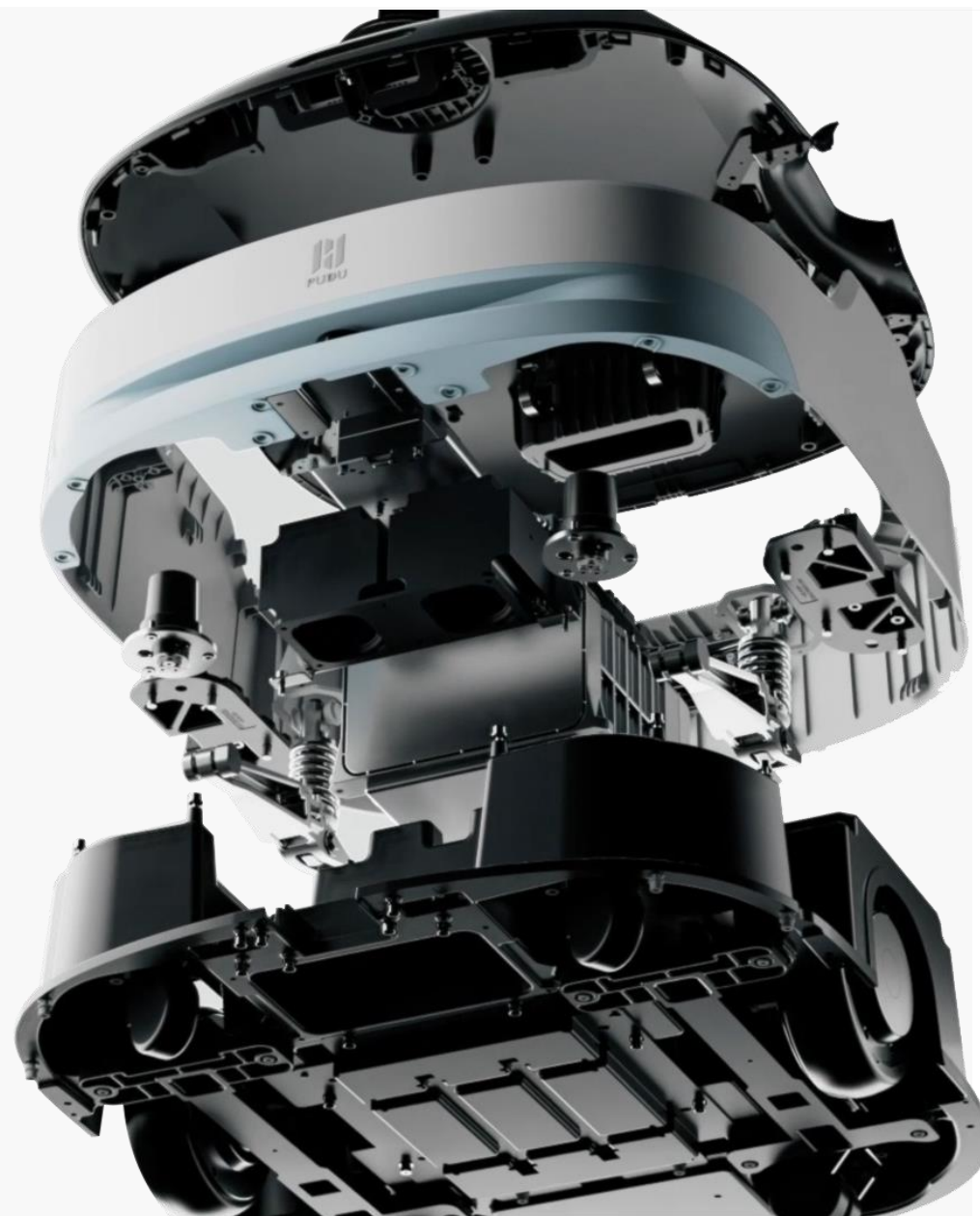
Key Features

PUDU-developed Servo In-wheel Motor

Cost Reducing, Efficiency Boosting

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

*Source: PUDU Lab

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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
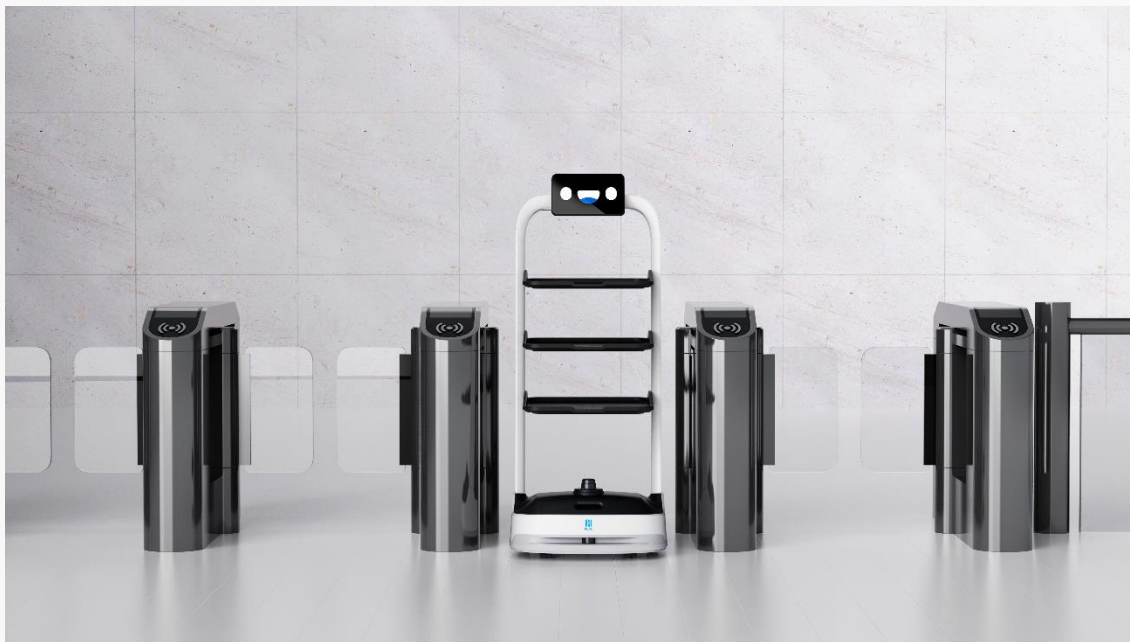- Assign and manage tasks simply with one click

VIP Room Notification

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

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Key Features

Automated Pass-through

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

Key Features

Fully Enclosed Machine Design

Machine Slit
≤1mm

Effectively resist
dust and water

IP42

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

Running Mileage	Runtime	Interactive Visits
10.9	14.31	453
Last Cycle 0	Last Cycle 0	Last Cycle 0
▲ 0%	▲ 0%	▲ 0%

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

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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

Service APP

| F&B Industry | Cleaning Product | Delivery Product | Others |

Launcher & System App

Autonomous API Testing

SDK API

| Way-point Control | Obstacle Avoidance | Travel Data |
| Light Control | Audio Control | Navigation |

Central Runtime

Framework Services

| Navigation | Speech | IOT | Third Party |

Native C++ Libraries

| Algorithm | Sensor |

Drivers

| Can | USB | Wi-fi | ...... |

Embedded & Peripheral Module

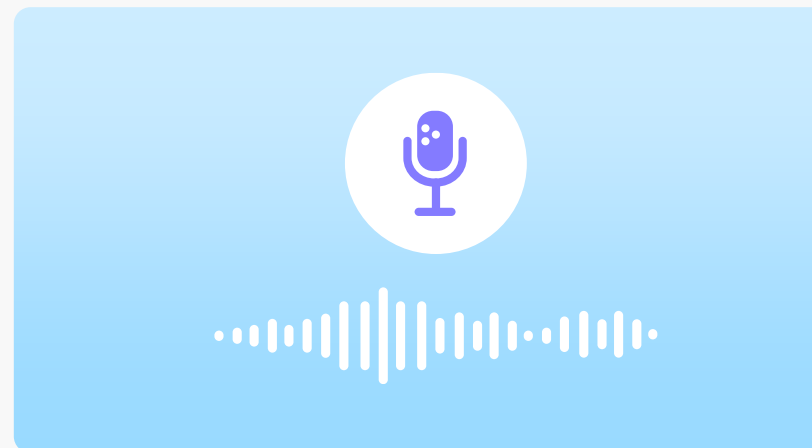| CanOpen | Camera | RGBD | Lidar |

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

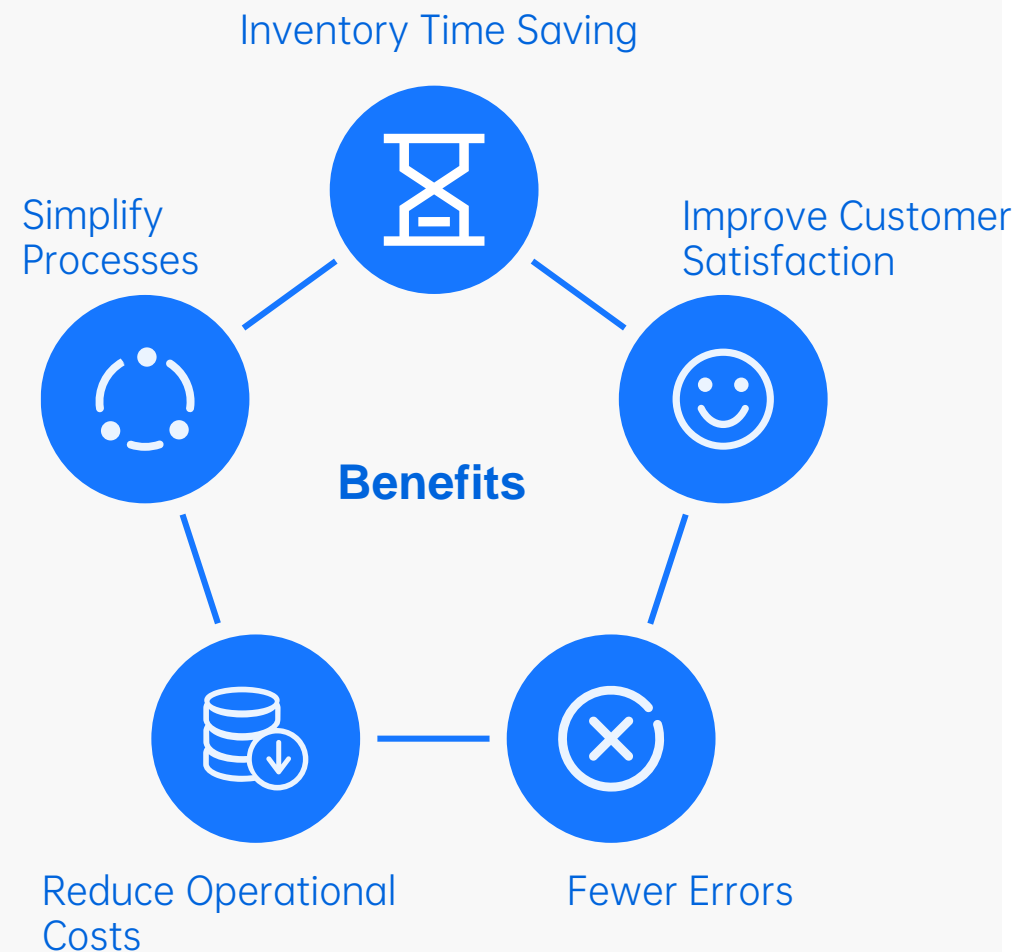Office

Senior Living

Manufacture

Entertainment & Leisure

Retail

PuduBot 2

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.

Inventory Time Saving

Simplify Processes

Improve Customer Satisfaction

Benefits

Reduce Operational Costs

Fewer Errors

Product Values

Mitigate Labor Shortage

The pandemic has been hugely devastative 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.
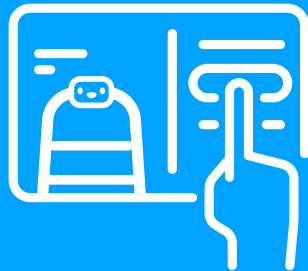
Streamlining underlying processes

Reducing friction to create the sense of seamlessness and delight

Boosting customer experience by re-allocating more humans into front-facing roles
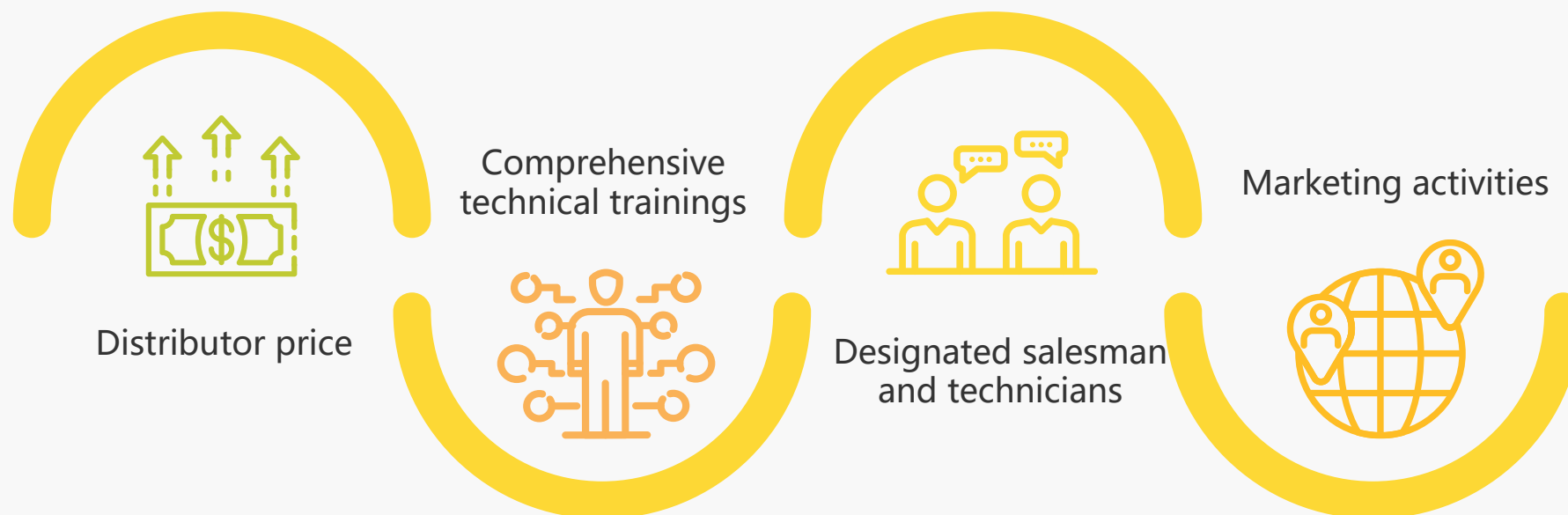
Enhancing customer journey by providing innovative experience

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:

Distributor price

Comprehensive technical trainings

Designated salesman and technicians

Marketing activities

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.
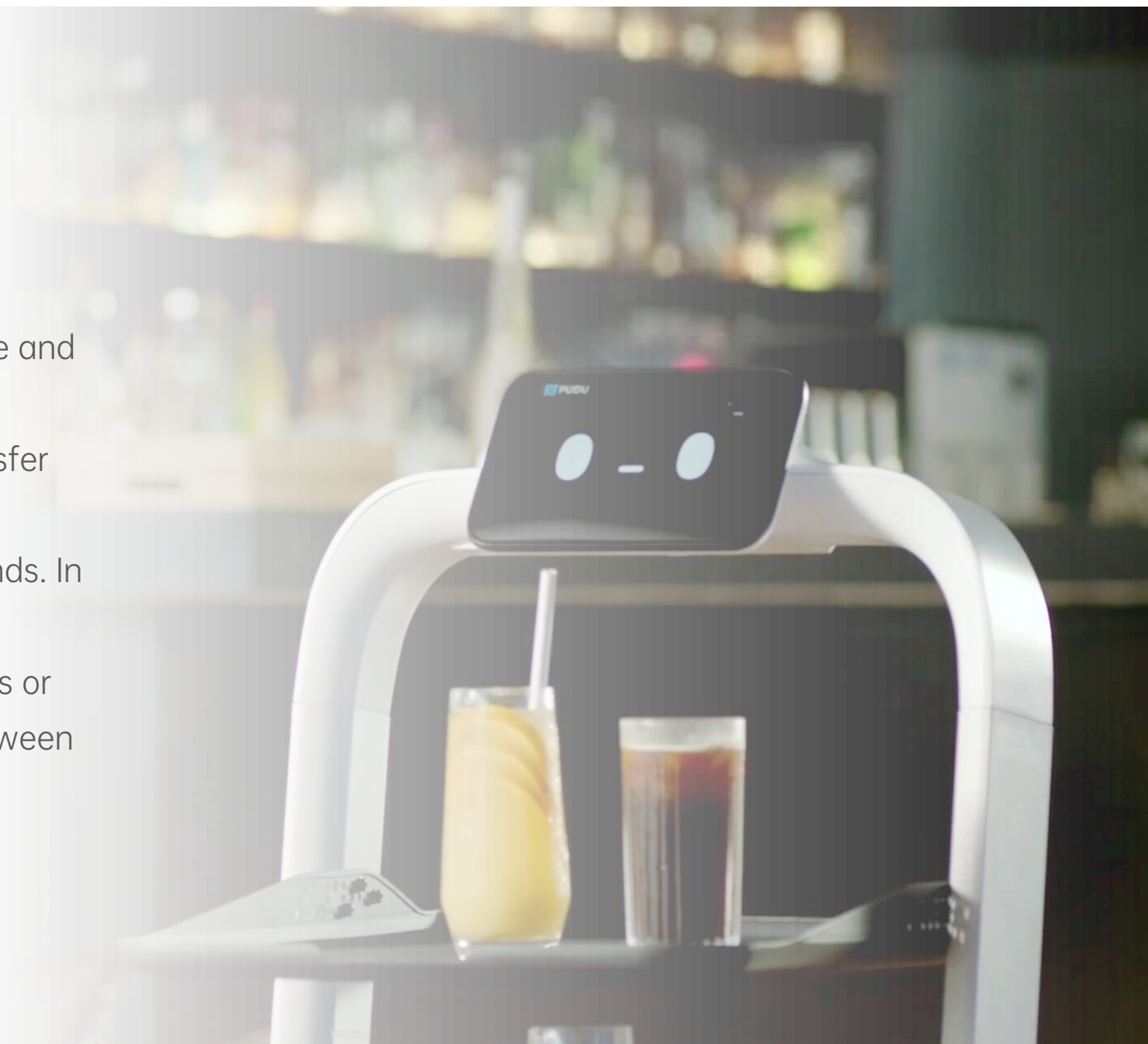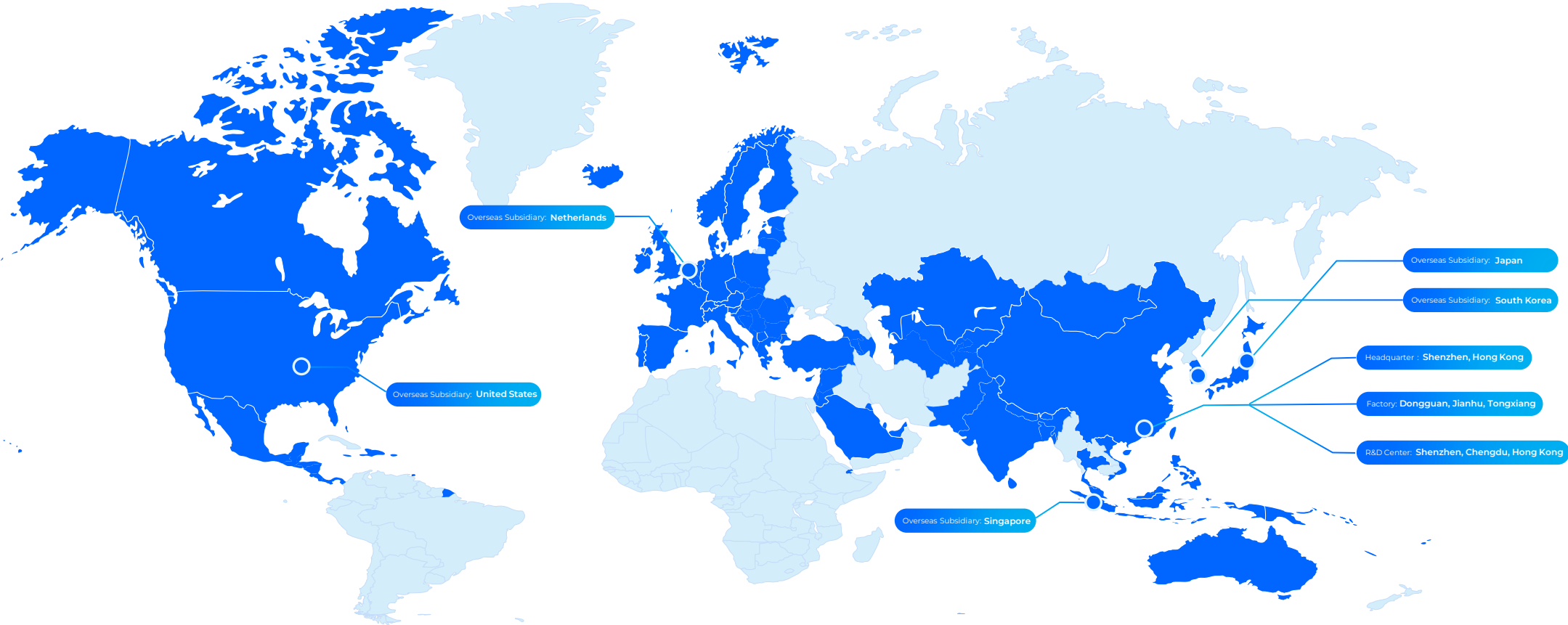
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PuduBot 2

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 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

Overseas Subsidiary: **Netherlands**

Overseas Subsidiary: **United States**

Overseas Subsidiary: **Japan**

Overseas Subsidiary: **South Korea**

Headquarter: **Shenzhen, Hong Kong**

Factory: **Dongguan, Jianhu, Tongxiang**

R&D Center: **Shenzhen, Chengdu, Hong Kong**

Overseas Subsidiary: **Singapore**

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.

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

PUDU

Thank you!

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