

PuduBot 2

Universal Delivery Robot



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Product Overview

PuduBot 2

PuduBot 2, the newly upgraded delivery robot from Pringle 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

20Ah LFP Battery

Automatic Charging





Product Overview

Dimension	23in X 21 in X 51in
Machine Weight	86 lbs
Tray Size	20 in X 17 in
Single Tray Load	Maximum 28.5 lbs
Maximum Loads	88 lbs
Battery Life	10~24h
Charging Time	3h
Path Clearance	31.5 in
Cruise Speed	1 - 2.5 mph
Obstacle Negotiation Height	.4 in
Max Slope	$\leq 5^{\circ}$
Positioning Method	PUDU VSLAM+ & Laser SLAM
Dispatching	Maximum 20
Charging	Wire or Automatic



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Key Features

VSLAM+

New generation of 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 40,000m²
- Improved stability with fewer changes of the positioning reference
- Greater adaptability of different scenarios under different light conditions

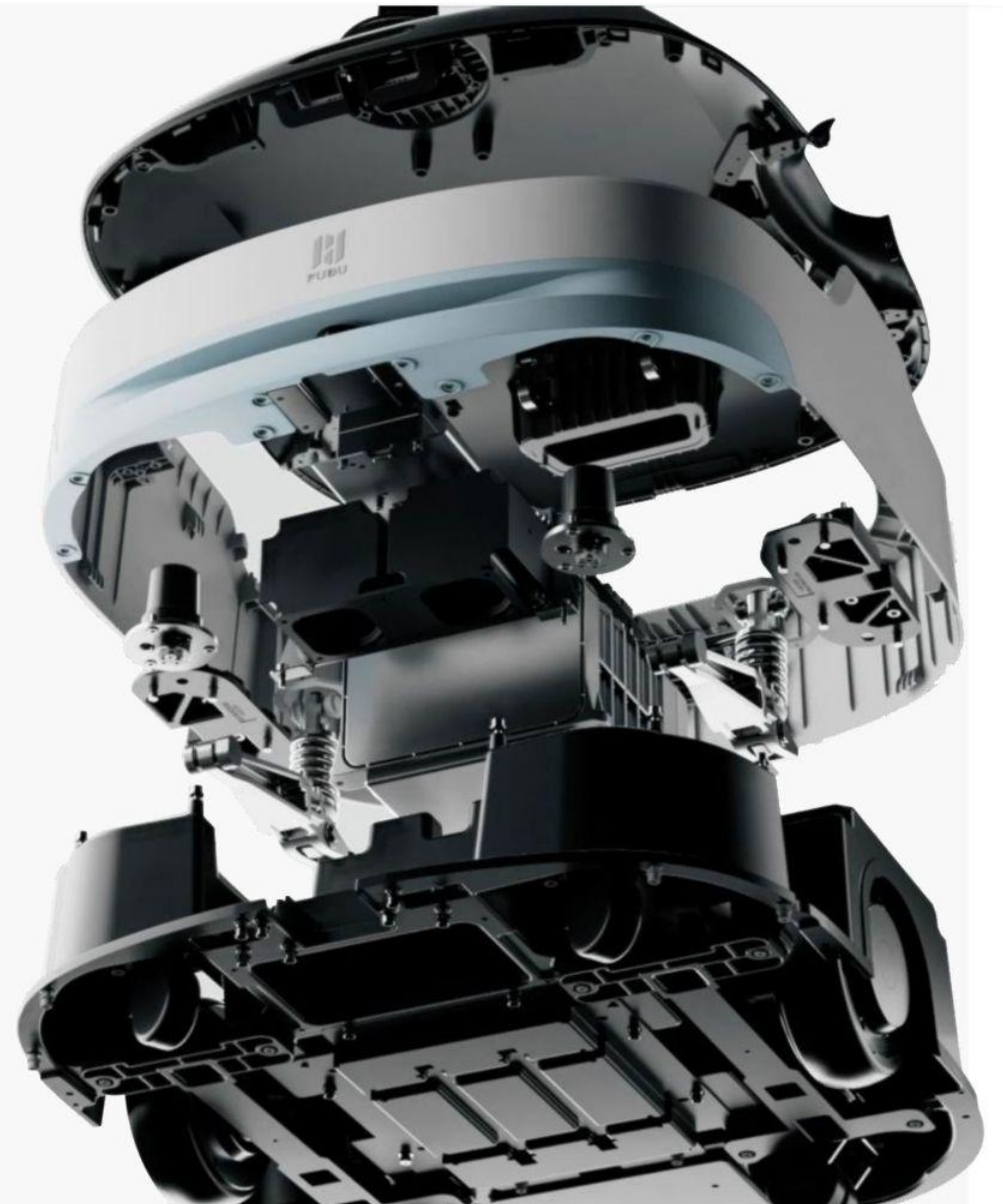




Key Features

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 floor surfaces, 30% improvement in moving stability
- Smooth mobility even with bumpy surfaces

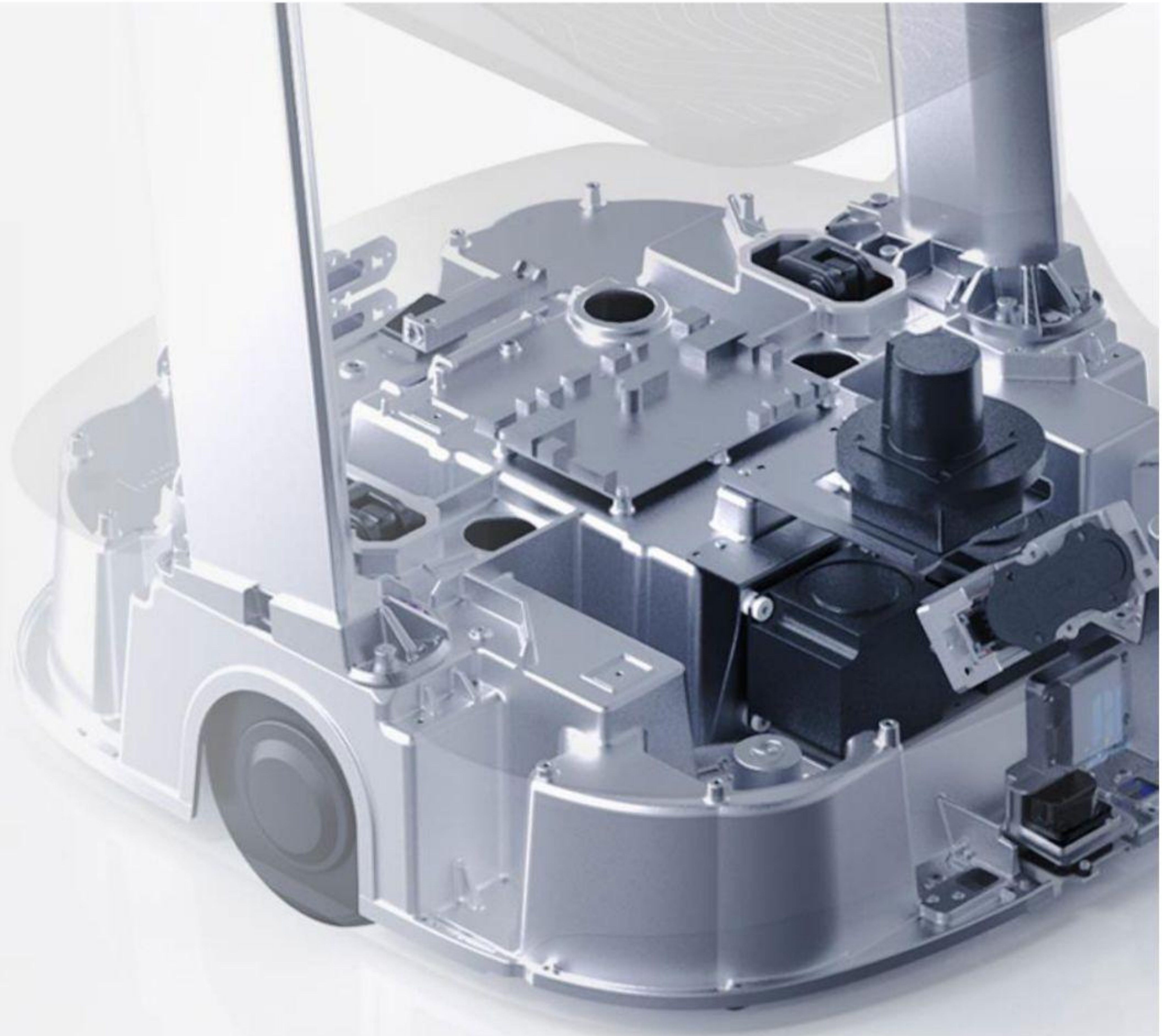




Key Features

Efficiency-Boosting Servo In-Wheel Motor

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





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 LFP Battery



- Extended battery life
- Operates up to 24h on a 3 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

Meets 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 by simply installing Bluetooth control modules at sites.





Key Features

Fully Enclosed Machine Design



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



Effectively resist
dust and water



IP42 rated

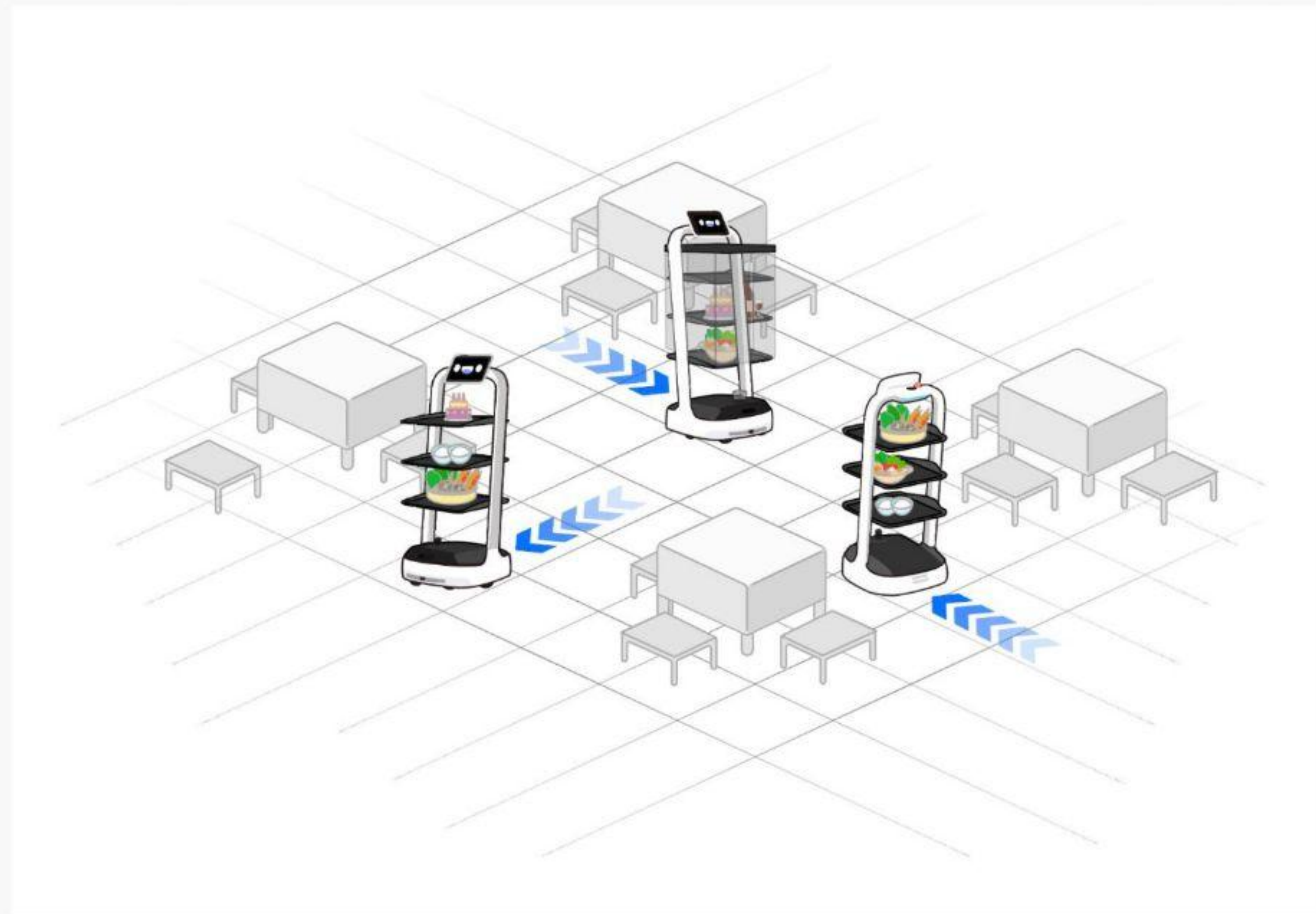




Key Features

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

Various Forms, Versatile Accessories



Dish Cover



32" AD Screen



Cup Holder



QR Code Scanner



Key Features

24 X 7 Management and Analysis

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 data

Attract customer data

Interactive data

Ad data

Grid 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

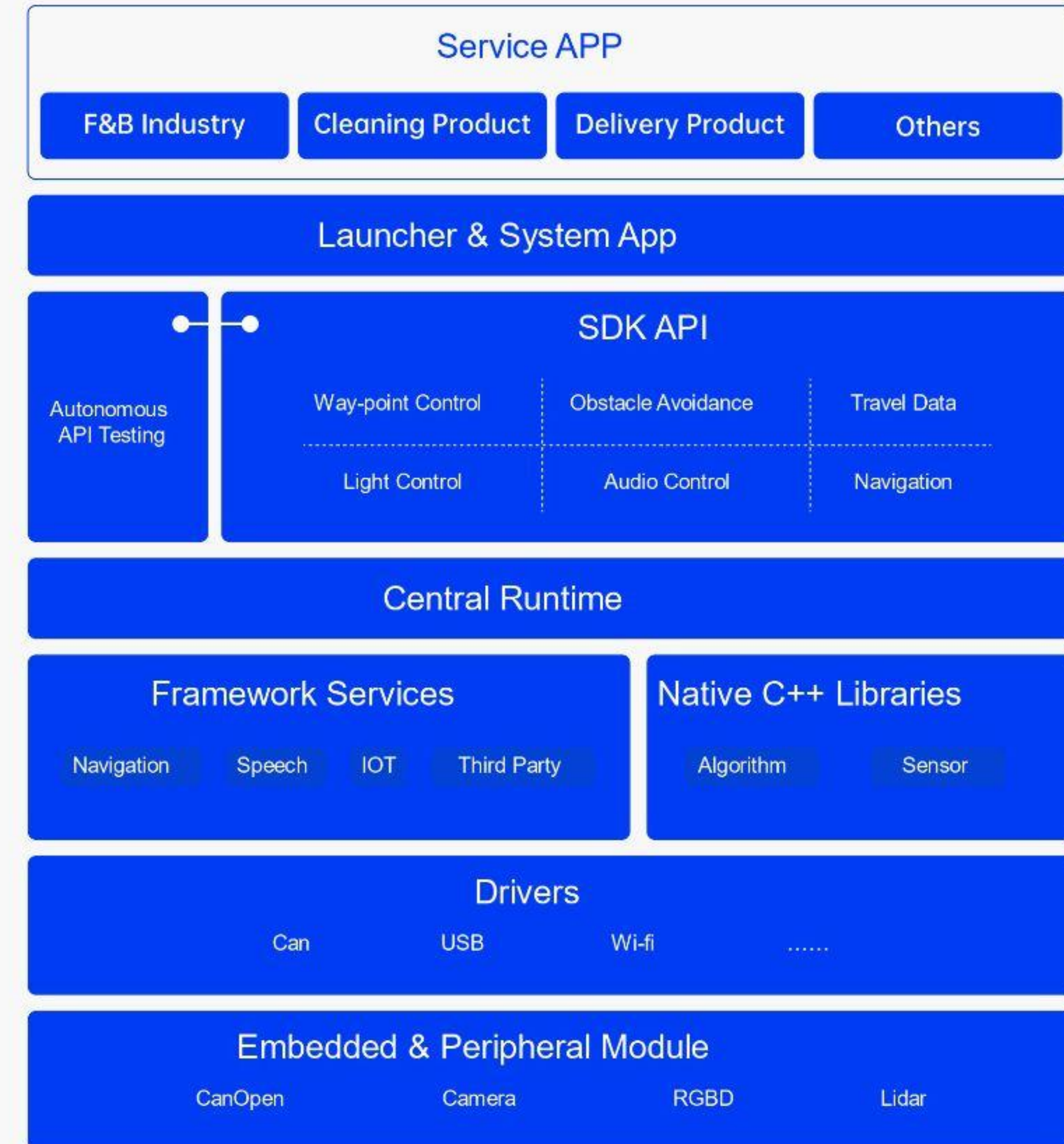


Key Features

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





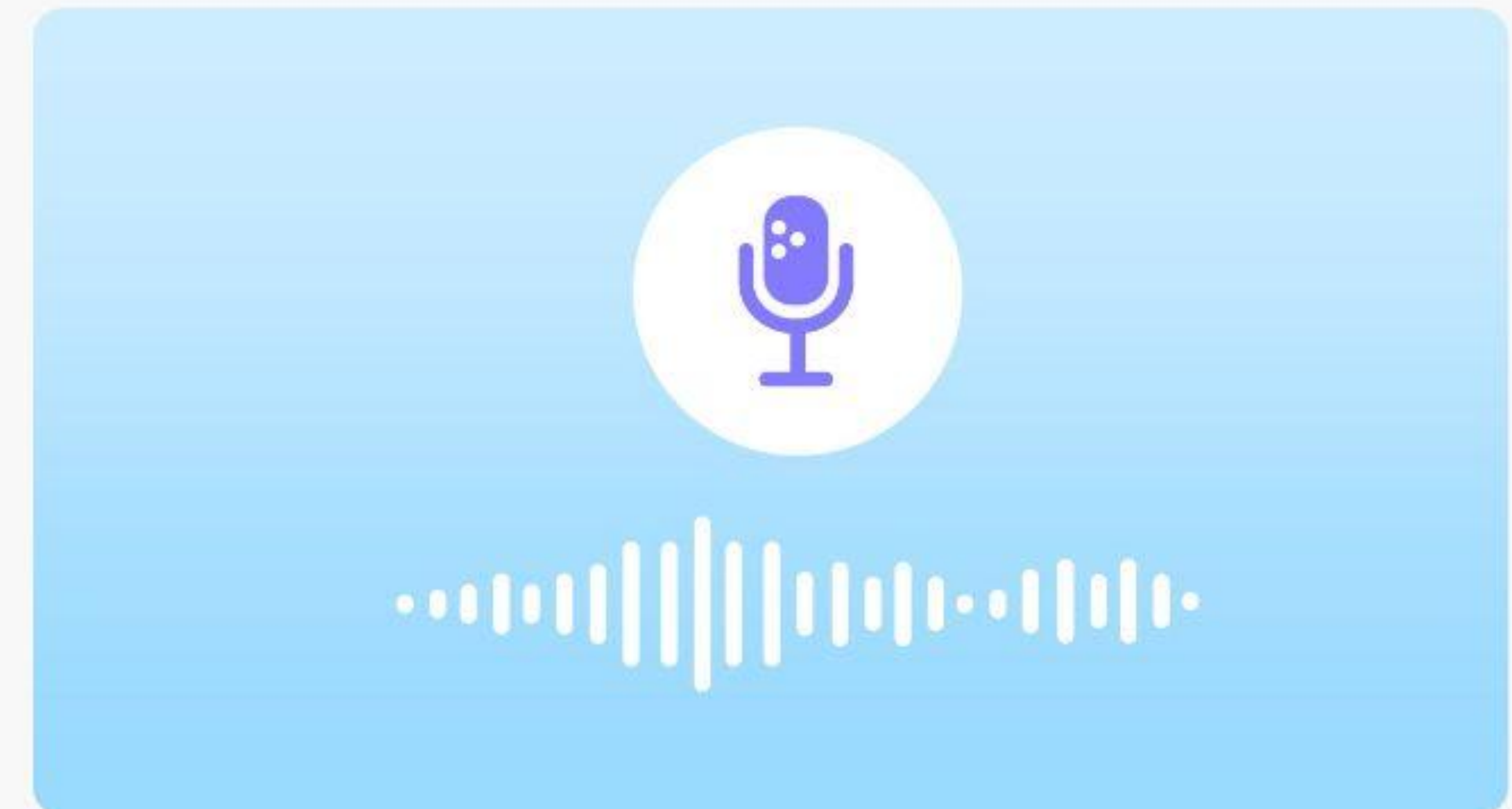
Key Features

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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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 in order to streamline operations.

Embedded in strong foundations and in-depth understanding of catering industry, PuduBot2 possesses the significant features to streamline the food delivery.





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 to hire and retain staff.

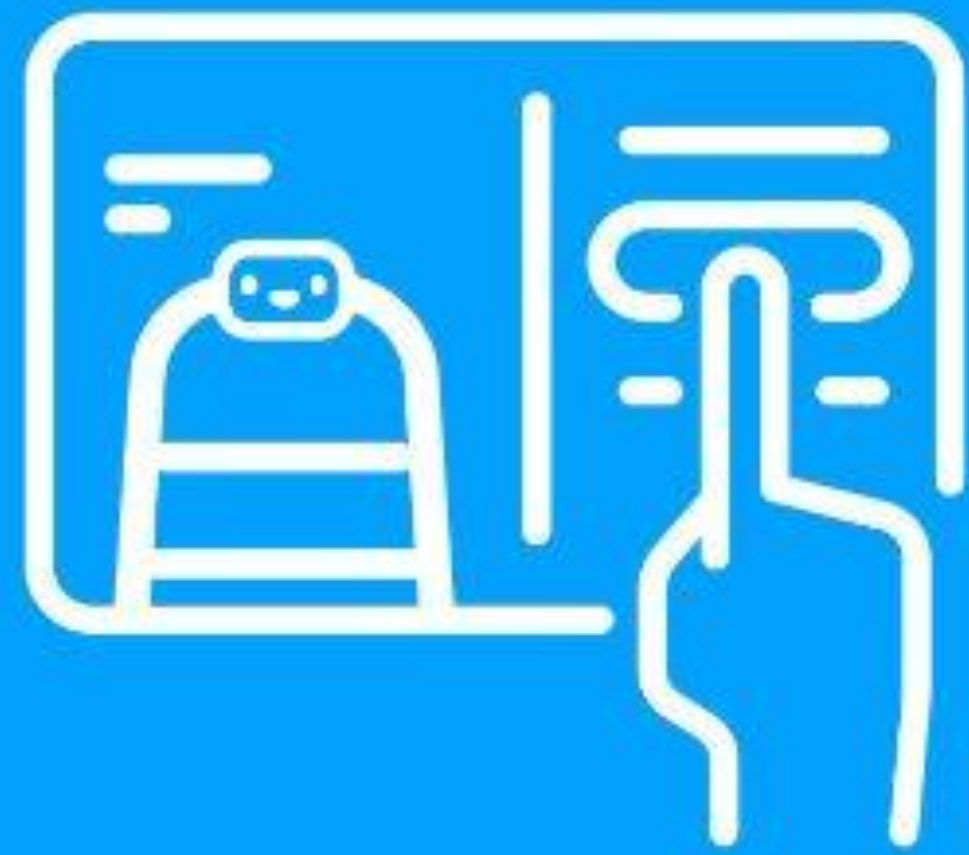
Deploying robots to replace the 4-D jobs (Dull, Duplicate, Dirty and Dangerous) is trendy and will become ubiquitous in future. With the help of robots, employees may focus more on the high-value work and have a better work environment, which results in better work experience and satisfaction.



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

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Pringle Robotics

Leading the Way in Human-Robot Partnerships

Headquartered in Peoria, Illinois, Pringle Robotics is a developer of integrated robotic solutions for people-focused industries. We create service robots that help people work smarter, faster and with less stress so that they, in turn, can better deliver the high-value customer care that matters most.

All of our robots are designed from the ground up for autonomous operation, and natively built with the latest AMR operating system—never retrofitted. Our line of BoTs ranges from hosting, serving, dish bussing and delivery for the hospitality industry to cleaning, disinfection and secured delivery for complex, large scale facilities like hospitals and schools.

Our Mission

Pringle Robotics is a company on a mission to elevate people-focused industries for the benefit of all through practical automation.

Our Vision

Creating Autonomous Solutions that empower people and communities to be Productive and Safe. We believe in continuous innovation and integration with other platforms to build the most useful and flexible robots in the industry.

How Do Our BoTs Help Facilities?

Quite simply, by letting people do what they do best. In shifting time consuming and repetitive tasks to robots, human workers can focus on the higher-value work. This practical automation improves operational efficiency, lowers costs related to hiring and retention, and boosts satisfaction all around.

What Sets Pringle Robotics Apart?

We're just as committed to our customers as you are to yours.

While some technology providers focus on sales, we're focused on solutions. We approach each customer engagement as innovation-obsessed collaborators, committed to not only providing the widest and most versatile range of service robots on the market—but also backing them up with the industry's most comprehensive customer support. In-depth on-site training, unlimited virtual technical support and round-the-clock remote robot monitoring are standard components of our customer care philosophy.

Pringlerobotics

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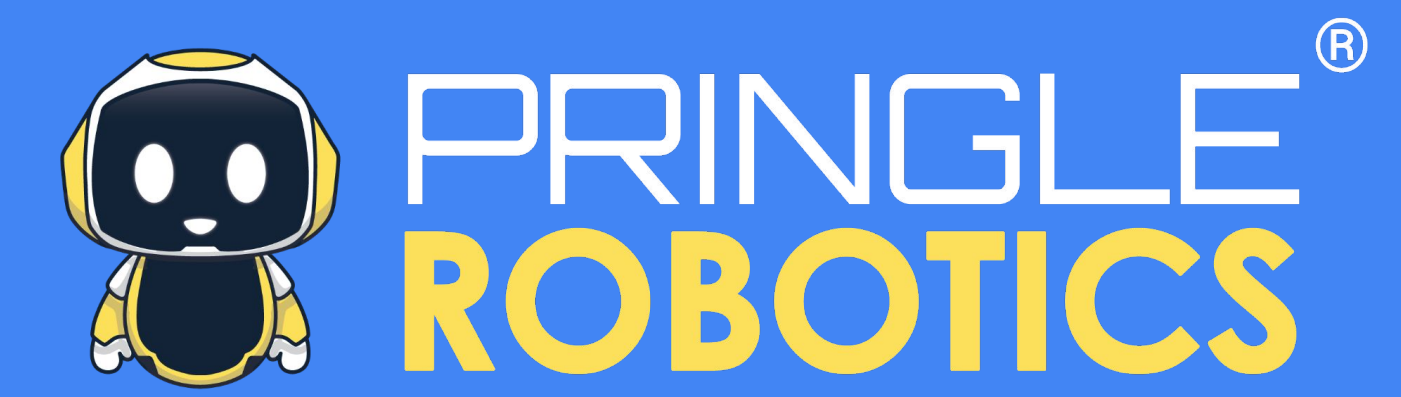
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Thank You

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