



# BellaBot Pro

Premium Delivery & Advertising Robot





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# BellaBot Pro

## Premium Delivery & Advertising Robot

BellaBot Pro, a premium indoor delivery and advertising solution, embodies the original BellaBot's charming cat-themed persona, offering multimodal interaction, ample payload capacity, and swappable battery technology.

Enhancing these core features, it features a large advertising screen for boosted promotional capabilities. We've refined visual tray detection for greater accuracy and expanded dish recognition capabilities. Moreover, ambient tray lighting ensures clear guidance during meal pickup. With added front-view cameras, it enhances environmental awareness and enables interactive greetings. Supported by VSLAM + Laser SLAM visual positioning, it's well-suited for large-scale deployments.





# Key Features



Superior Mobility



Customized Advertisement



Upgraded Vslam+



Omni-Sense Safety



Dish Recognition & Broadcast



Smart Tray Detection



Crosswalk Caution



Multiple Delivery Modes



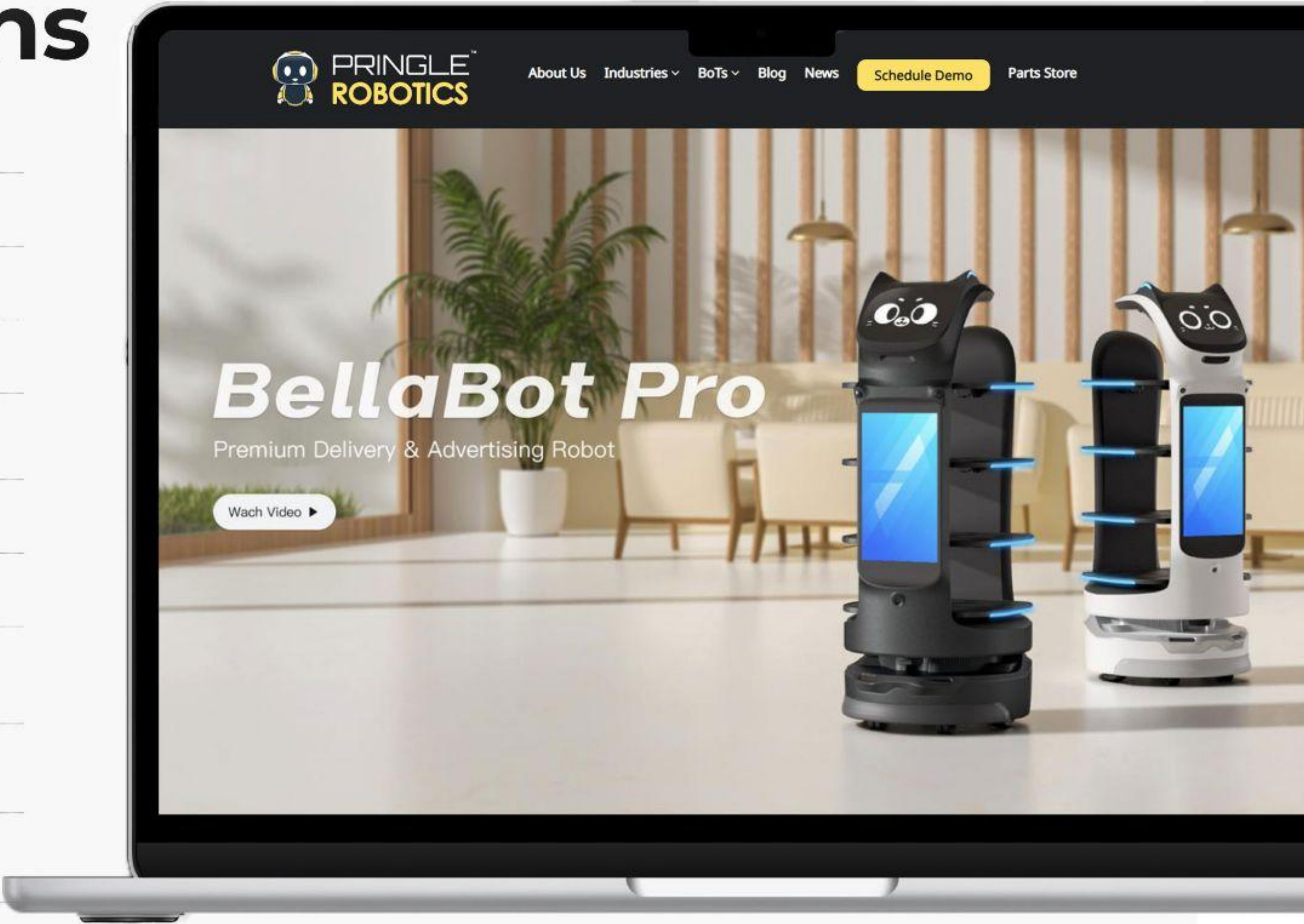
# Product Introduction





# Product Specifications

|                    |                                               |
|--------------------|-----------------------------------------------|
| Machine Dimension  | 22 X 21.5 X 51 in                             |
| Machine Weight     | 125 LB                                        |
| Loading Capacity   | 88 lb (22 lb/tray)                            |
| Tray Dimension     | 16 X 20 in                                    |
| Battery Capacity   | 25.6Ah                                        |
| Cruise Speed       | 0.5 - 2.5 mph                                 |
| Charging Time      | 4.5h                                          |
| Screen             | 10.1-inch LCD screen and 18.5-inch LCD screen |
| Path Clearance     | ≤65cm                                         |
| Navigation Methods | VSLAM & Laser SLAM                            |





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# VSLAM+ for Rapid Deployment Across Vast Venues

## Precision Meets Presence

- 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 **200,000m<sup>2</sup>**
- Improved stability with fewer changes of the positioning reference
- Greater adaptability of different scenarios under different light conditions





# In-store Marketing



## Reach More Customers with 18.5" Large Ad Display

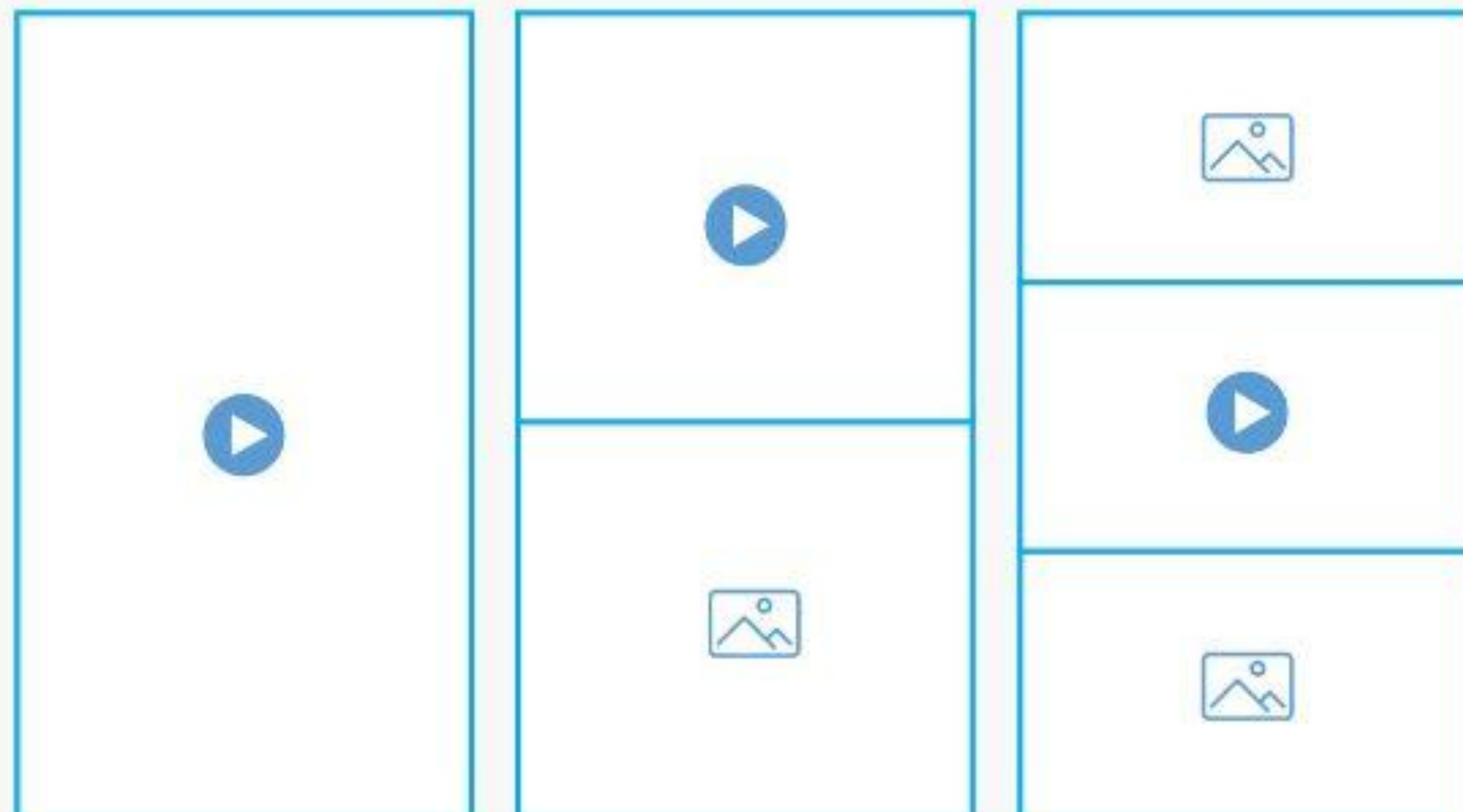
- The 18.5" large ad screen can display promotional videos or pictures, providing a more **eye-catching approach** to marketing.
- Centered ad display perfectly adapts to the customer's angle of view, while maintaining the design aesthetic of the robot.
- BellaBot Pro is not only attractive to adults but also to children, making it ideal to impress the whole family.



# In-store Marketing

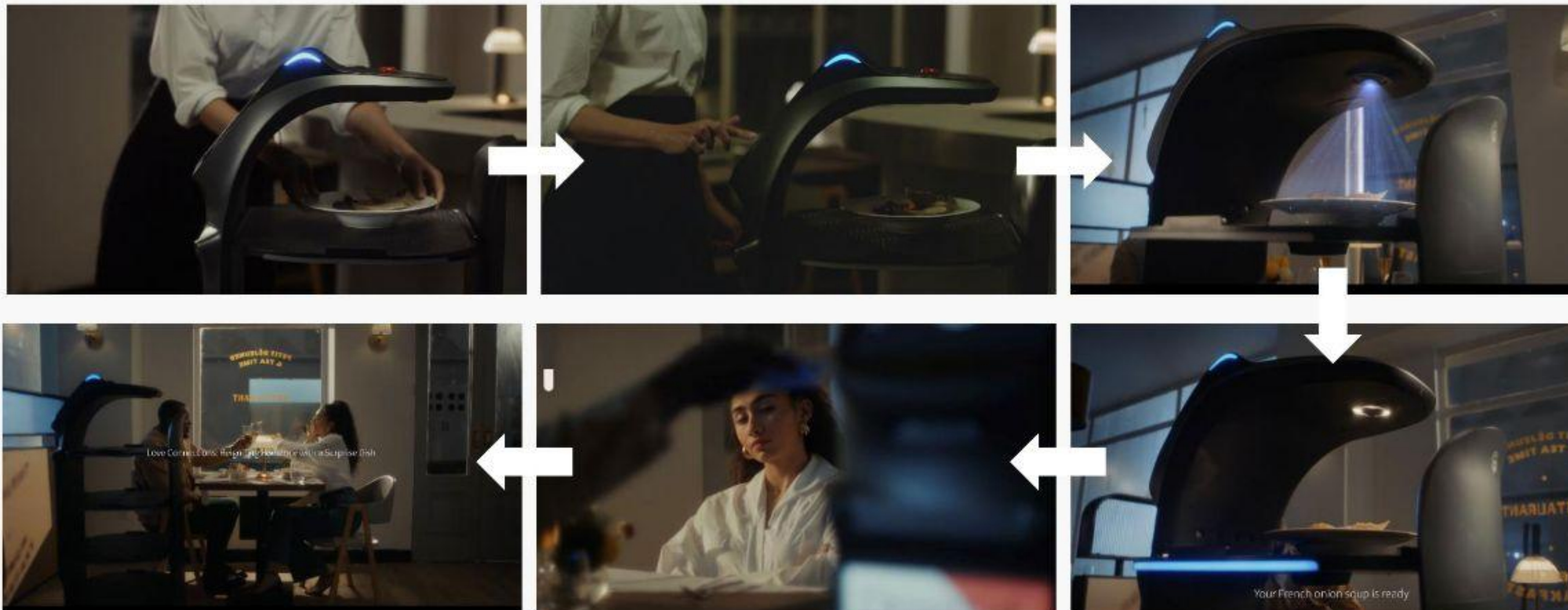
## Customized Advertisement

- The Robot's Business Management Platform offers the flexibility to customize the content presented on the ad display.
- The ad playlist can be easily generated, with customer-defined frequency and the sequence of the ads.





# A Whole New Level of Meal Pick-up



Placing dishes onto the tray->

**BellaBot Pro recognizes dishes ->**

BellaBot Pro departs ->

Arrives at destination ->

**Lights up to remind for meal pickup ->**

**Announces dish information ->**

Customer retrieves meal ->

**Tray detects that dishes are taken ->**

BellaBot Pro continues to next task



# Smart Trays Detection & Dish Recognition

## Seamless Delivery with Smart Tray Detection

- Fish-eye cameras automatically detect tray content, optimizing the entire self-service dining experience.

## Dish Recognition & Broadcast\*

- The integration of dish recognition technology empowers BellaBot Pro to not only **announce dish names** but also provide **valuable insights such as cooking methods and ways of eating**, enriching diners' experiences with enhanced information.



\*: In July 2024, upgraded via OTA.



# Effortless Maneuvering in Tighter Spaces

With a minimized clearance at 65 cm, BellaBot Pro is specially designed for complex and dynamic environments.



- Delivering the smoothest mobility capability within the same size as large delivery robots, it effortlessly navigates complex environments.
- Improved mobility in tight spaces enhances the robot's efficiency and performance, making it more adaptable to diverse environments and suitable for versatile applications.
- With a clearance of 65cm, it navigates seamlessly through various types of passages, including straight, L-shaped, S-shaped, and pivot turns.



# Enhanced Multimodal Interaction



**Ear-touch Interaction**



**Back-touch Interaction**



**Light Interaction**



**Voice Interaction**





# Omni-Sense Safety

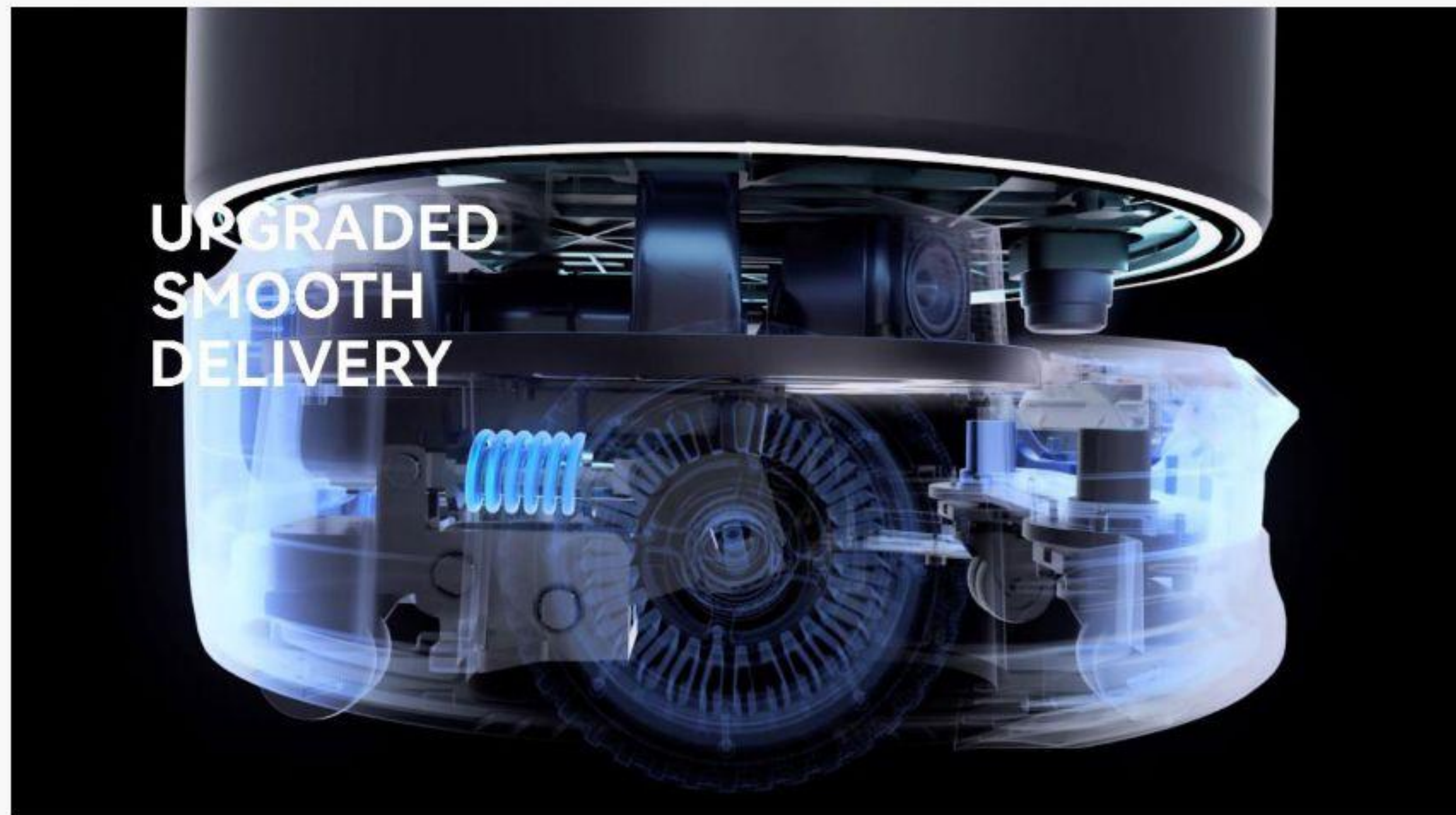


## Obstacles Detected, Journey Perfected

- A revolutionary environmental perception solution, equipped with **2 front-view cameras, 3 RGBD sensors, and 1 lidar**, achieves full coverage of front-end chassis detection. It automatically halts upon encountering obstacles and navigates with ease while steering forward.
- The addition of two front-view cameras ensures **comprehensive detection coverage** at the front end of the robot, enhancing safety in complex environments.
- This **reduces the likelihood of accidents**, improves user experience, enhances brand image, and increases consumer trust.



# Stabilized Delivery



## Upgraded for Stability, Ready for Any Scene

- The newly **upgraded vehicle-grade chassis** and motion control algorithms **enhance delivery stability**, making it suitable for delivering various items in diverse scenarios.
- Enhanced with **shock-absorbing technology**, our upgraded automobile-level adaptive suspension significantly improves the stability of BellaBot Pro, allowing it to transport dishes with food decorations, porridge, soups, and drinks while minimizing spills.



# Crosswalk Caution

## Projecting Safety at Every Turn

- BellaBot Pro possesses autonomous safety awareness, projecting ground patterns near intersections to alert pedestrians, ensuring **blind spot safety**.
- For stores: Minimize the risk of blind spot accidents caused by obstructed walls, thereby reducing potential compensation and repair costs. This also enhances brand image and increases consumer trust.
- For customers: Ground projection lights serve as alerts for pedestrians, signaling the presence of approaching robots and enhancing their safety awareness.





# Multiple Work Modes

## Multi-Modal Delivery

- One robot serves for multiple purposes



Delivery Mode



Cruise Mode



Direct Mode



Dish Return Mode



Birthday Mode

## Multi-Table Delivery

- Serve several tables at one go

**Meets diversified delivery needs**



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## Multi-Industry, Multi-Scenario Coverage



Restaurant & Café



Hospital & Clinic



Hotel & Resort



Office



Senior Living



Manufacture



Entertainment & Leisure



Retail



# Customer Value



A differentiated experience to attract more customers

BellaBot Pro redefines customer experience with an eye-catching way to attract customers and a smart, thoughtful way to serve them.

A novel approach for in-store marketing

BellaBot Pro allows your marketing campaigns and special offers to reach more customers, delivering a higher conversion.





# Customer Value

## Robot-human collaboration to improve service and efficiency

Human workers collaborate with BellaBot Pro in a way that they can both do what they are best at.

BellaBot Pro is ready to assist and improve humankind's working experience.



## Manpower shortage is no longer a problem

Multiple delivery mode can well assist stores in completing tasks such as food delivery , and delivering snacks, which will free up human workers from dull and duplicate tasks.



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# About Pringle Robotics

## 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.

### Pringle Robotics Pvt. Ltd

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# Thank you!

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