



T300

INDUSTRIAL DELIVERY BOT





CONTENT

Product Overview

Product Features

Product Value

About Pringle Robotics



T300

Industrial Delivery Robot

The T300 is a versatile delivery robot designed for material transport in industrial environments and heavy-load delivery in commercial settings. It features a robust, load-bearing chasis with an open architecture and includes an operational screen for user convenience. The robot can handle loads up to 660 lbs and is equipped with essential IoT capabilities such as elevator control, gate navigation, and remote paging functionality. It also provides extensive software and hardware interfaces, making it easy to integrate with existing software systems and expand with additional hardware.





Key Features



Superior Mobility



300kg Load Capacity



Multi-modal Interaction



7/24 Non-stop Operation



Diversified Attachments



Flexible Vslam+ Positioning



360° Omni-Sense Safety



ISO 3691-4 Standard



Product Introduction





Product Specifications

Machine Dimension	31*20*53 in
Machine Weight*	132 lbs
Loading Capacity	Maximum 600 lbs
Run-time	12hr (Empty), 6h (Full Load)
Battery Capacity	30 Ah
Charging Time	2h (from 0% to 90%)
Cruise Speed	2.7 mph
Threshold Clearance Height	Maximum 0.8 in
Groove Crossing Width	Maximum 1.4 in
Path Clearance	Maximum 24 in
Navigation Methods	VSLAM + Lidar SLAM

*The T300 with lifting functionality will weigh approximately 176 lbs





CONTENT

Product Overview

Product Features

Product Value

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VSLAM+ for Rapid Deployment Across Vast Venues

Precision Meets Presence

- The T300 utilizes **VSLAM+ technology** and is classified as an AMR. Unlike traditional AGVs, it does not depend on preset physical path markers but rather navigates freely using an advanced visual positioning system. This allows the T400 to **quickly adapt to changes in production layouts without the need for time consuming reconfiguration or facility remodeling.**
- Operation even in high ceiling environment up to **98 ft**
- Extra large scene mapping for up to **200,000m²**
- Deployment time is reduced by **70%** compared to traditional AGVs, while the use of a built-in mapping tool boosts mapping efficiency by an additional **30%**.





360° Omni-Sense Safety

- The T300 industrial delivery robot sets a high standard in safety, meeting the stringent ISO 3691-4 guidelines for industrial vehicles. Its advanced safety features ensure reliable operation within the ever-changing landscape of factory settings.
- At the heart of its safety suite are cutting-edge LiDAR sensors, which provide a 360-degree scan of the robot's surroundings to detect objects and navigate with precision. Depth cameras offer an additional layer of spatial awareness, allowing the T300 to accurately measure distances and effectively avoid collisions.





Multi-Robot Collaboration

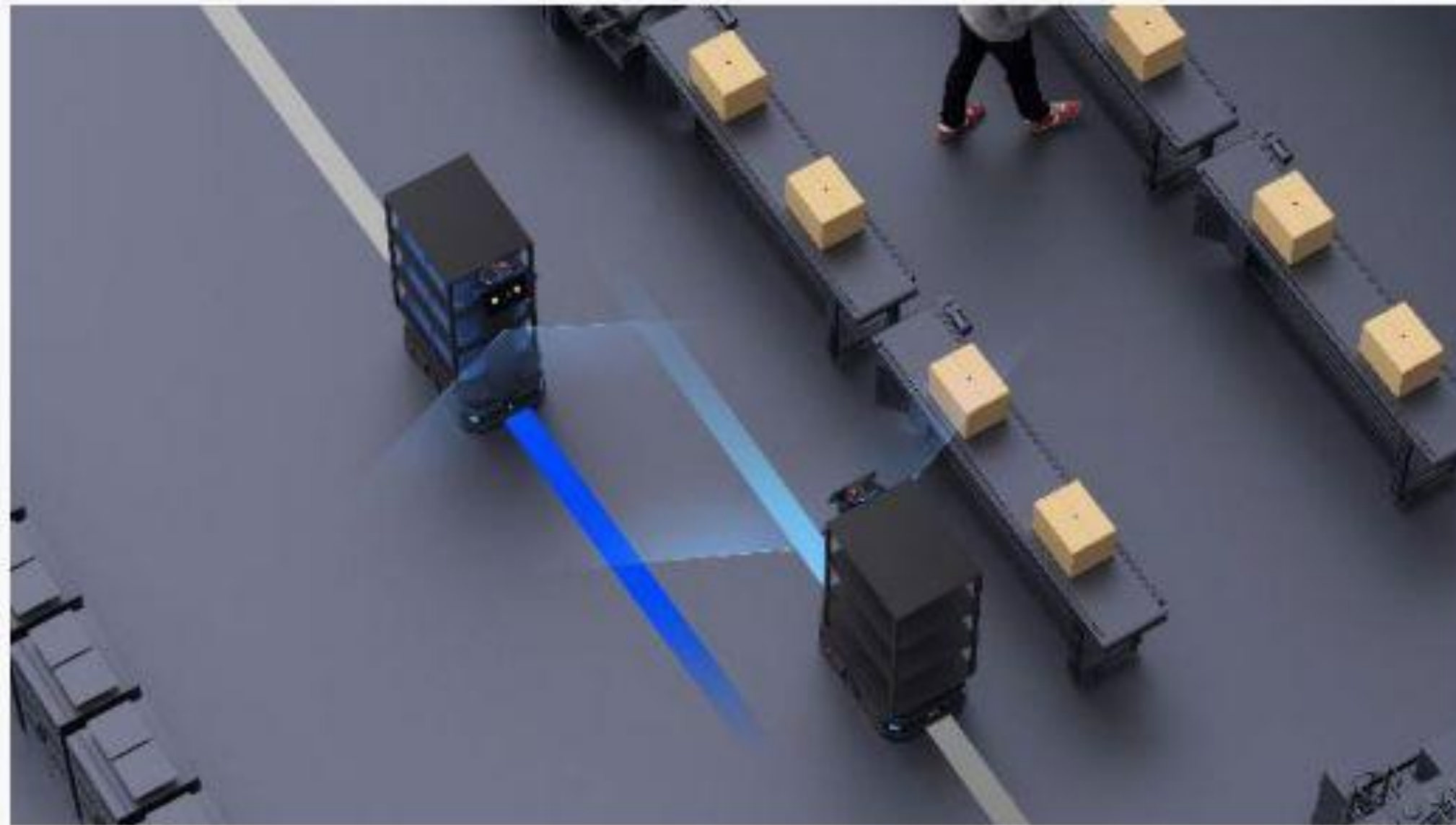
Smart Scheduler System

- 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



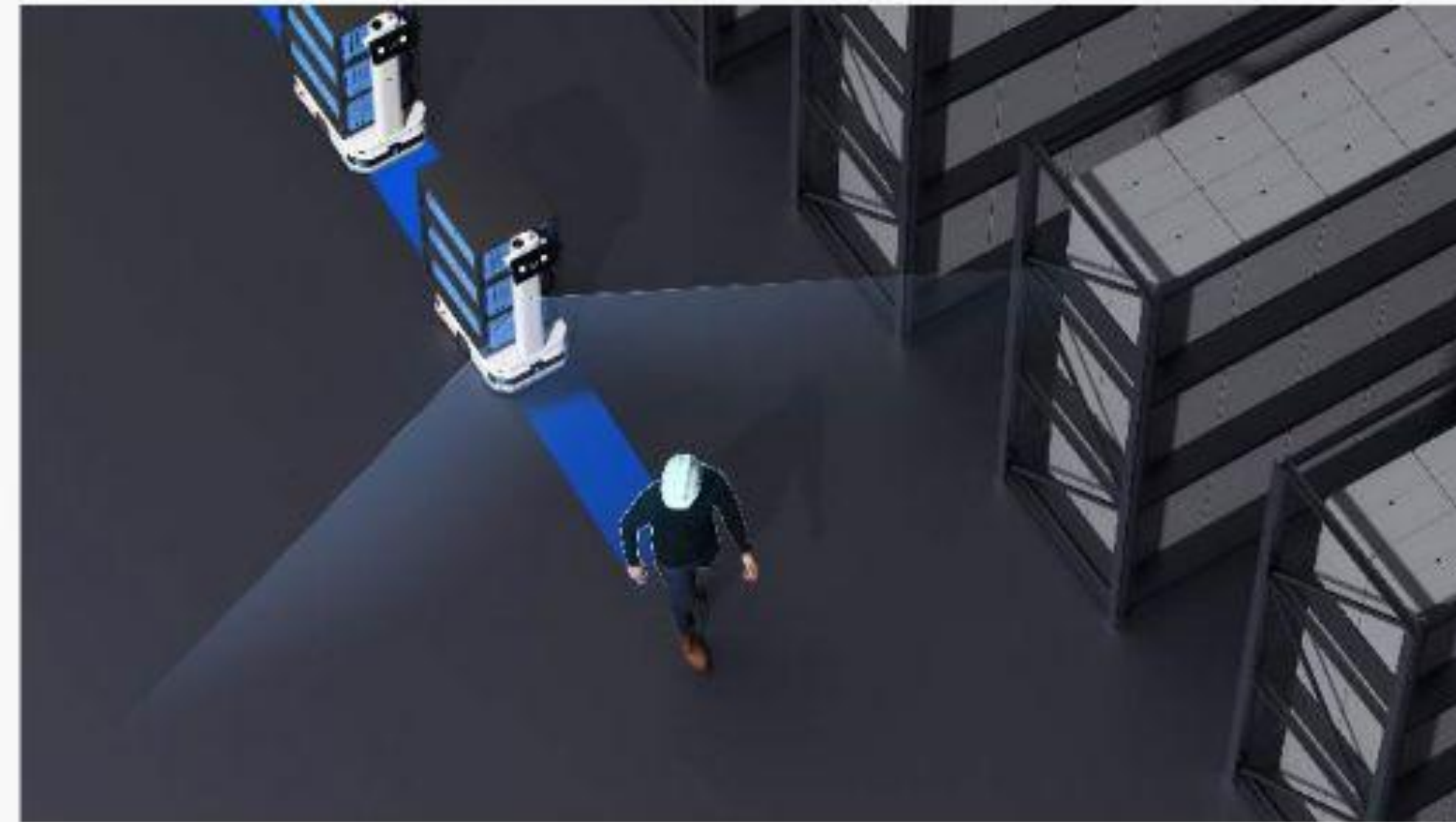


Auto & Semi-auto Delivery Modes



Auto-delivery Mode

The T300 is capable of autonomous navigation and can deliver goods to any designated destination. Additionally, you can swiftly adjust the maps to accommodate changes in the production line.



Follow Mode

The T300 employs visual recognition technology to facilitate an orderly queuing and following mechanism among multiple robots, a system primarily used for material preparation and the transportation of assorted goods.



Power-assist Mode

When manual intervention is required for specific tasks or map generation, the T300 is equipped with an electric power-assist system to facilitate hand-pushing operations, thereby enhancing delivery efficiency and convenience.



Versatile External Attachments

Expand Your Capabilities with useful Attachments

The diversified expansion of applications significantly enhances the robot's adaptability and versatility, thereby increasing operational efficiency and simplifying procedures, ensuring a more efficient, smooth, and seamless delivery process.



Standard Mode



Shelf Mode



Lifting Mode



Towing Mode



Versatile External Attachments



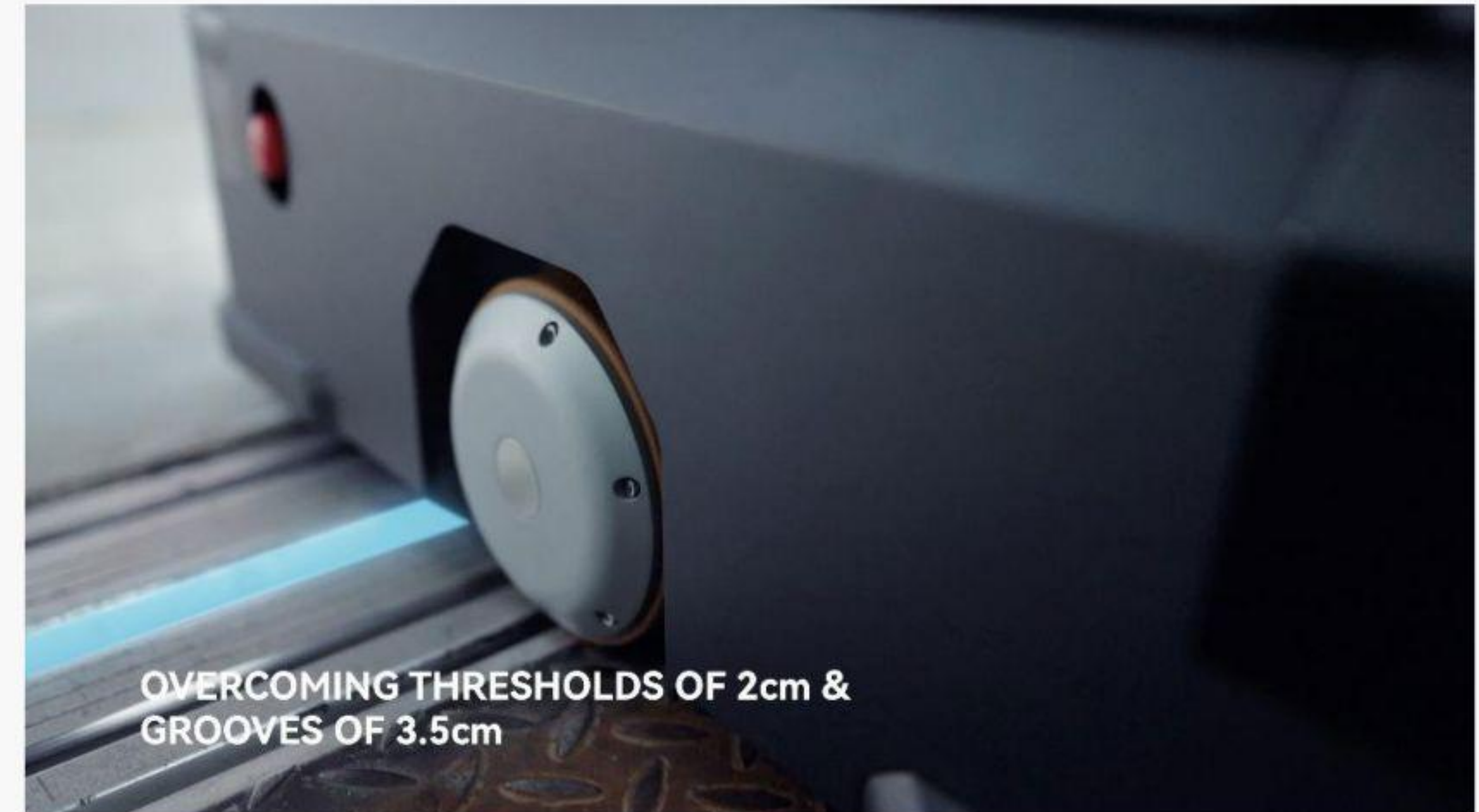
Features	Large capacity	Multi-level carrying space	Fully automated delivery and loading/unloading	Flexible integration with existing carriers
Scenarios	Large-scale material box transport	Multi-site small or medium material transport	Multi-site small or medium material transport	Materials need to be transported using existing wheeled carriers



Exceptional Adaptability to Different Sites

Exceptional mobility to navigate various obstacles

Boasting an exceptional 24 inch path clearance, the T300 ensures agile maneuverability in narrow human-robot cohabited spaces, effortlessly overcoming 0.8 inch thresholds and 1.4 inch grooves. It facilitates precise material transport between production lines and is designed to meet elevator control requirement.

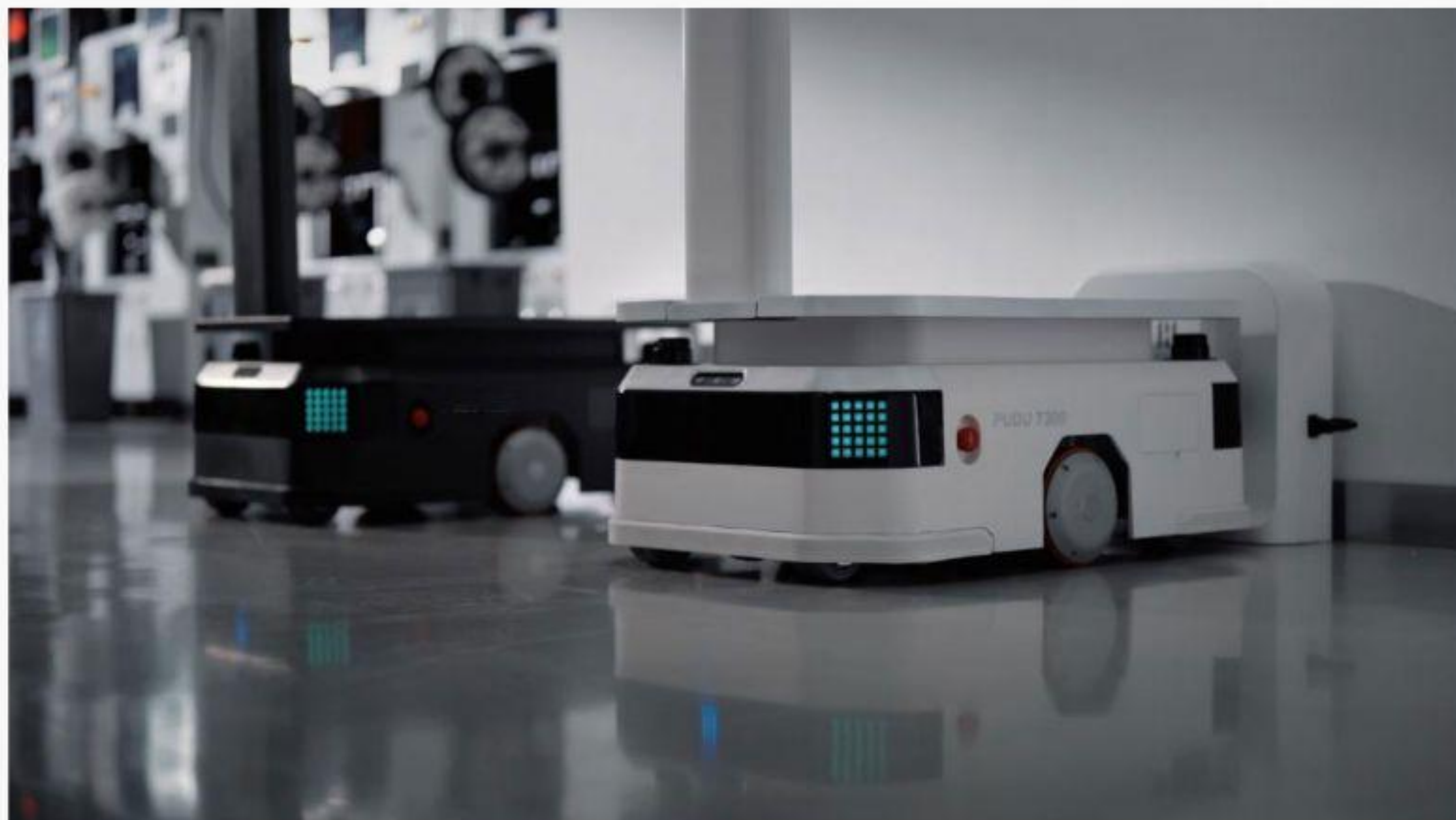




Round-the-clock Operation

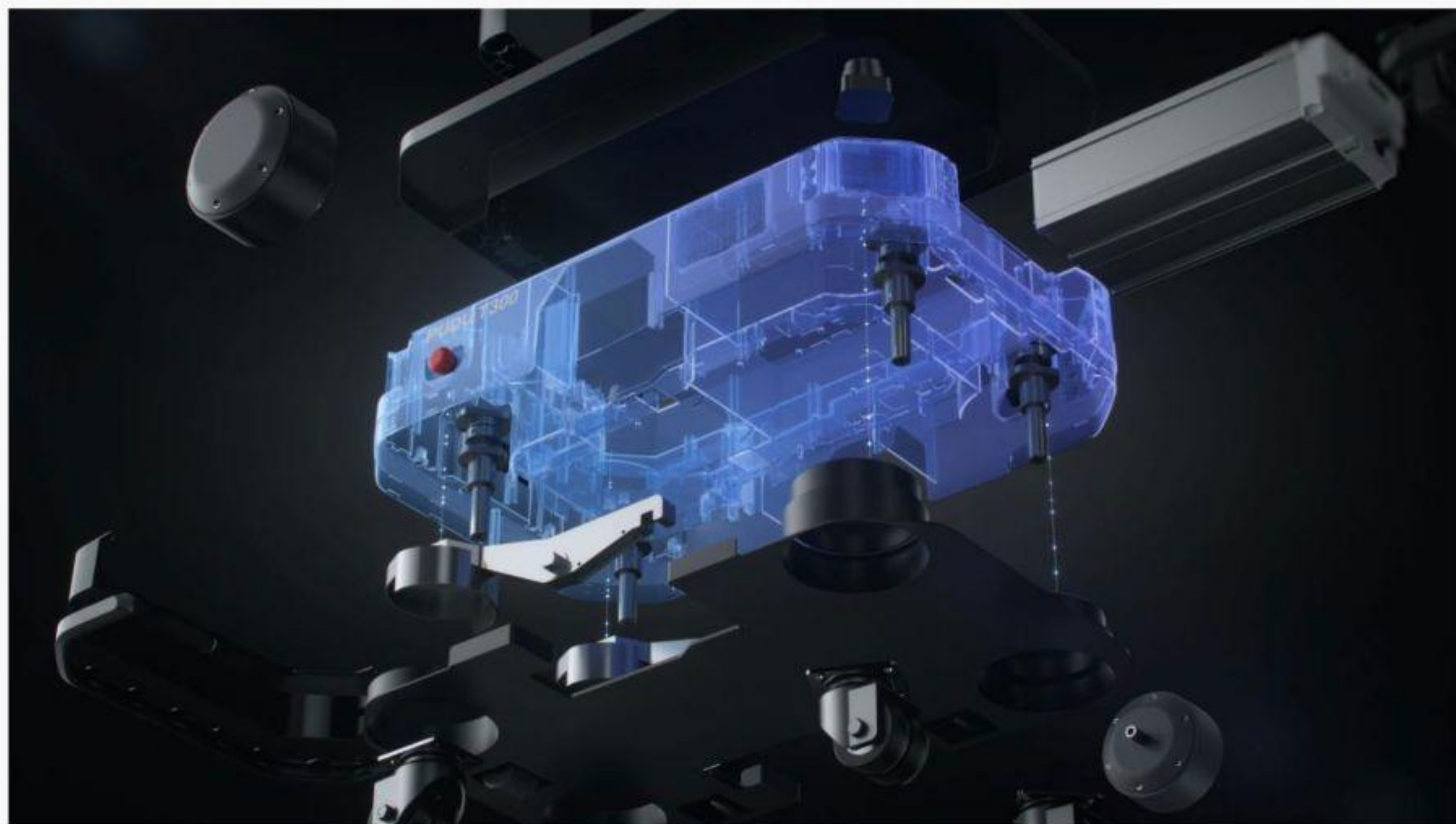
24/7 Non-stop Operations

- **8 hours of continuous work, 2 hours for rapid charging**
- The T300 offers an 8-hour battery life and supports a fast 2-hour (from 0% to 90%) charging capability. Equipped with both automatic recharging and battery replacement options, it ensures uninterrupted service to fulfill round-the-clock operational requirements.





Stabilized Delivery



- The newly **upgraded vehicle-grade chassis** and motion control algorithms **enhance delivery stability**, making it suitable for delivering various materials in diverse scenarios.
- Enhanced with **shock-absorbing technology**, our upgraded automobile-level adaptive suspension significantly improves the stability of T300.



Multimodal Interaction

Press-to-go Button



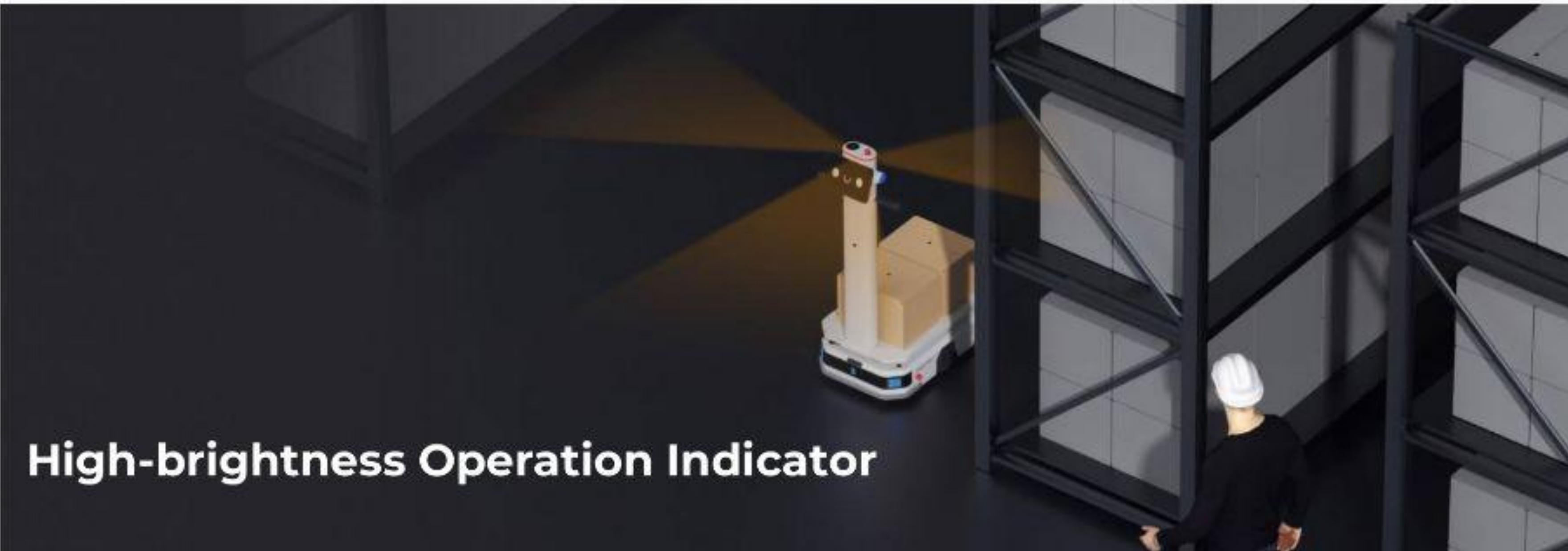
Traffic Signal Lights



Audible Alerts



High-brightness Operation Indicator





IOT Capabilities

Equipped with expansive IoT capabilities, T300 supports elevator control, e-gate access, and various other smart connectivity solutions. Featuring multiple remote calling functions such as pagers and app-based calling. Additionally, it offers software API interfaces for seamless system integration. Outfitted with external power supply ports and USB outlets for convenient hardware device integration.



Peripheral Interface



(App)



Pager



Elevator Control Module



E-gate Control Module



Bluetooth Speaker



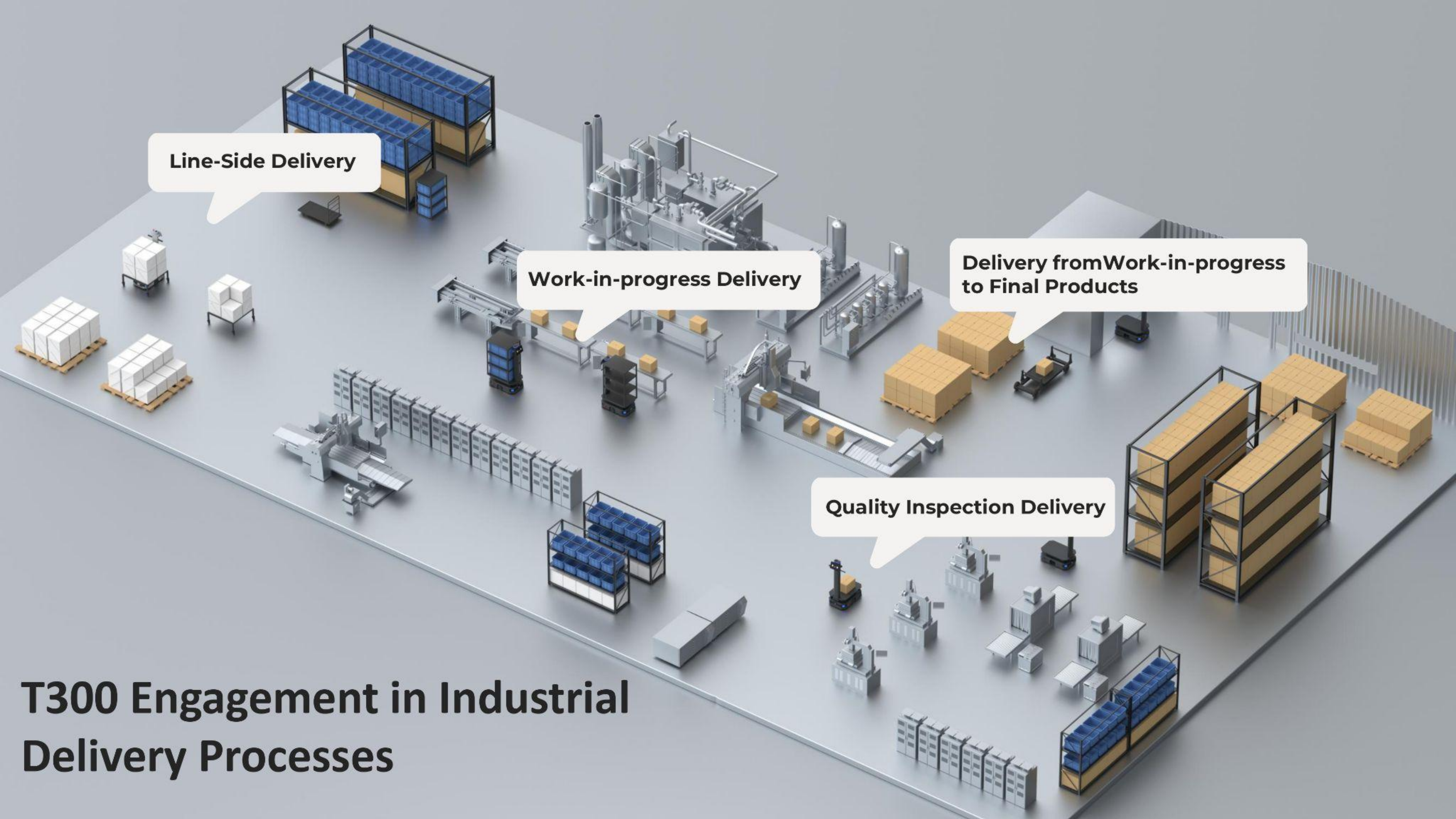
CONTENT

Product Overview

Product Features

Product Value

About Pringle Robotics



The image is a 3D isometric illustration of a complex industrial facility. It features a central processing area with various machines, pipes, and tanks. Surrounding this are several storage and delivery zones. In the top left, there are tall racks filled with blue bins, with a callout bubble labeled 'Line-Side Delivery'. To the left of the center, there are stacks of white cubes on pallets and a small cart. In the center, there are conveyor belts and a small truck, with a callout bubble labeled 'Work-in-progress Delivery'. To the right of the center, there are large stacks of yellow cubes on pallets and a small cart, with a callout bubble labeled 'Delivery from Work-in-progress to Final Products'. In the bottom right, there are more racks of blue bins and a small cart, with a callout bubble labeled 'Quality Inspection Delivery'. The entire scene is set on a light gray floor with a dark gray border.

Line-Side Delivery

Work-in-progress Delivery

**Delivery from Work-in-progress
to Final Products**

Quality Inspection Delivery

**T300 Engagement in Industrial
Delivery Processes**



Product Value



Enhanced Efficiency

The T300 increases operational throughput by autonomously navigating through industrial environments, reducing delivery times and increasing productivity.

Improved Safety

With advanced sensors and safety features, the T300 minimizes the risk of accidents in the workplace by detecting and avoiding obstacles, ensuring safer interactions between machines and human workers.





Product Value

For Customization

The T300 can be customized with different attachments or software configurations to meet specific industrial needs, ensuring it can adapt to various tasks and environments without requiring multiple separate machines.



For Sustainability

The T300 is engineered for optimal energy use, featuring advanced lithium-ion battery technology and energy management systems that ensure longer operation times while consuming less power, thus decreasing overall energy costs and environmental impact.



CONTENT

Product Overview

Product Features

Product Value

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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.

Pringle Robotics Pvt. Ltd

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Thank you!

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