



AI ROBOTIC

YOUR **AI** HYGIENE PARTNER

AI CLEANING ROBOTIC

AI DELIVERY ROBOTIC

AI LOGISTIC ROBOTIC



ECOBOT COMPARED WITH MANUAL CLEANING TO CLEAN 4,000 SQM DAILY FOR 1 MONTH



**HUMAN +
EQUIPMENTS**

660 HOURS
MANUAL OPERATION

75 HOURS DOWNTIME



**HUMAN +
MACHINE**

45 HOURS
MANUAL OPERATION

195 HOURS DOWNTIME



**IMEC
ROBOTIC**

75 HOURS
MANUAL OPERATION

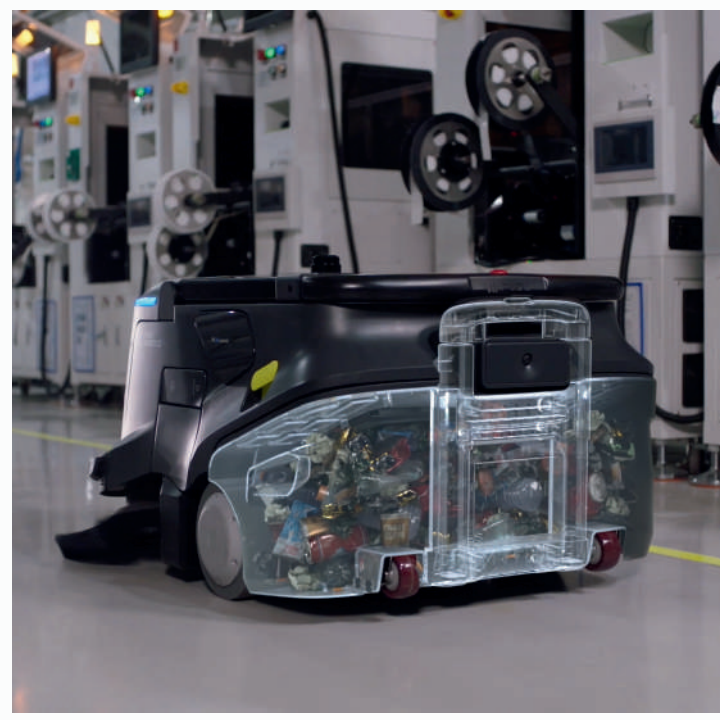
50 HOURS DOWNTIME



AUTONOMOUS OPERATION (NO MAN-HOURS REQUIRED)

MANUAL OPERATION (MAN REQUIRED)

DOWNTIME (MAN REQUIRED FOR MAINTENANCE)



Commercial & Industrial Cleaning Robots

Ensuring thorough and consistent cleanliness with intelligent automation and transparent performance results.

IMEC PHANTAS

Compact but Comprehensive



All-in-one Floor Cleaning

Integrates vacuuming, scrubbing sweeping, dust mopping



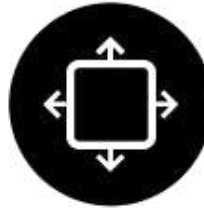
Floor Type Recognition

Identifies flooring types and automatically adjusts brush height to protect flooring materials



Auto Spot Cleaning*

Autonomously performs spot cleaning where waste is detected, bringing up to 4X efficiency improvement



Zero Distance from Edge

Able to clean along the edges zero distance-close, leaving the edges spot-free



Strong Passability

Effortlessly passes through and cleans narrow aisles and under-table areas

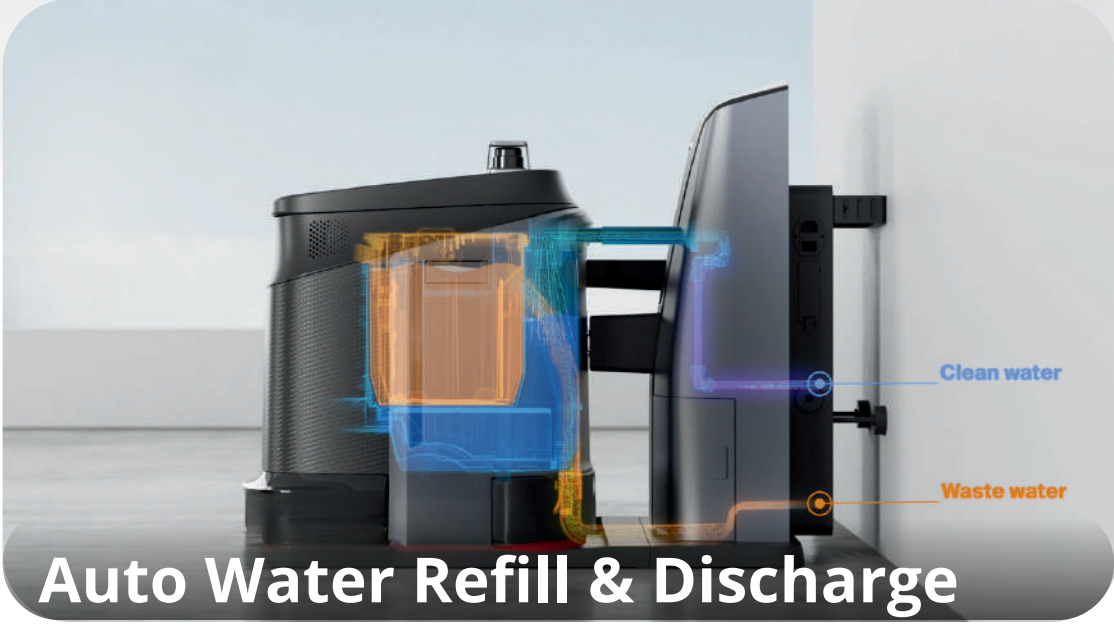


Smart Integrated Handle

Automatic mode shift (Auto/Manual) via handle position detection, and effortless control with power assistance and superb durability



Compactly Designed



Auto Water Refill & Discharge



Mobile Tank



Seamless Auto/Manual Mode Transitions



Auto Water Refill & Discharge



Charging Dock



Workstation

Specification



Product code	200-GSPT	Cleaning coverage	up to 3,000 m ² /h	Voltage	20V
Noise level	65 dB(A)	Dust bag	6L	Battery	Li-ion (24Ah)
Unladen weight	48KG	Water tank / Recovery tank	12L / 9L	Battery life span	Up to 2,000 cycles (full charge)
Dimension (cm)	54(L) x 44 (W) x 61.7	Cleaning width	75 cm	Charging time	1.5 hours
Gradeability	Up to 8°	Brush Pressure Brush speed	10 kg 50 rpm	Suction power	7kPa
Sensing system	LiDARs,3D Depth Cameras, RGB Camera Anti-drop Sensor,Anti -collision Sensor	Brush type	1- Side brush 2- Roller brush	Avg.run-time	Up to 5 hours

IMEC PUDU CC1

All in One , One for All



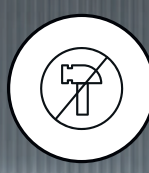
Diversified Consumables



Auto Power Charging & Auto Water Addition and Drainage



Dynamic Space Perception

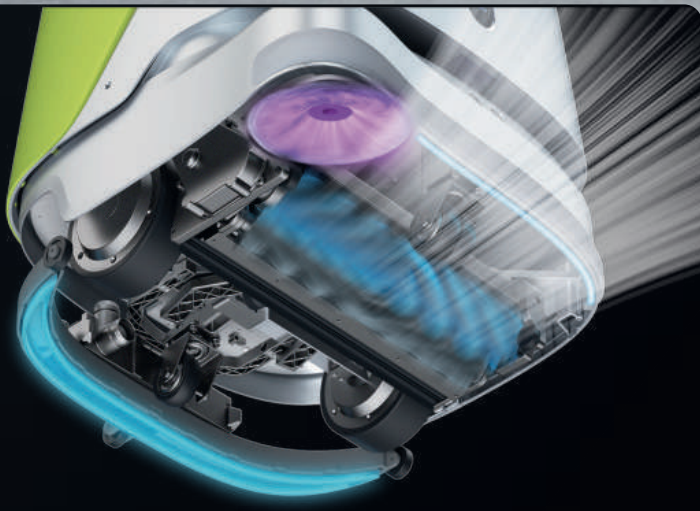


Mobile Water Tank No Plumbing Modification



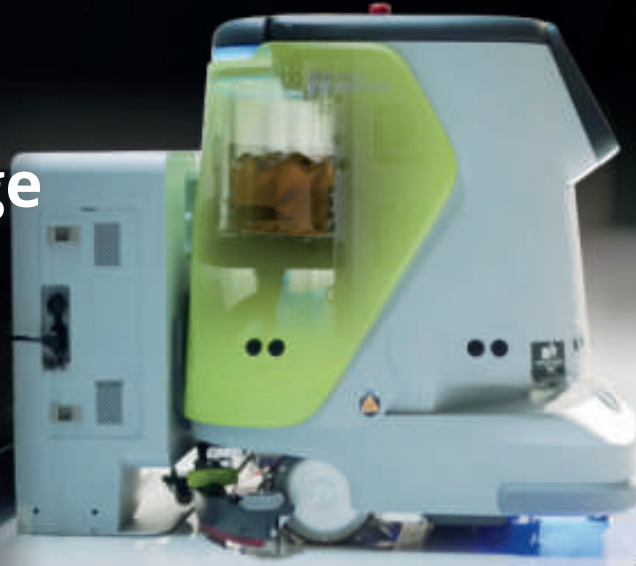
Versatile Cleaning

Four-in-one cleaning robot. Sweeping, scrubbing, mopping & dust mopping



Auto Power Charging & Water Refill and Discharge

No manual intervention worry-free and labor-saving



Dynamic Space Perception

Ideal for environments that frequently change, with the ability to perform real-time route planning and intelligent touch-ups based on the current surroundings.



PUDU SLAM Navigation Solution

Supports both visual SLAM and laser SLAM to perform tasks more efficiently in complex scenarios.




Measurable Cleaning

Cleaning results are clearly visible in the automatically generated reports



Specification

 **reddot winner 2023**

Product code	200-1000-GRN	Cleaning coverage	up to 8,000m ² /h	Voltage	24V
Noise level	70 dB(A)	Trash tray	2.5L	Battery	Li-ion (60Ah)
Unladen weight	75 KG	Water tank / Recovery tank	15L / 15L	Battery life span	2,000 cycles (full charge)
Dimension (cm)	63(L) x 62(W) x 66(H)	Cleaning width	up to 50 cm	Charging time	2.5 hours
Gradeability	Up to 8°	Brush Pressure Brush speed	18 kg 180 rpm	Suction power	17kPa
Safety system	Visual SLAM, Lidar SLAM	Brush type	1- Side brush 2- Roller brush	Run-time	Up to 6 hours

IMEC ECOBOT 50 PRO PLUS

Ai Robotic Deep Cleaning Scrubber



2 in 1 Cleaning

Integrating scrubbing & dust mopping



5-Stage Filtration System

Reducing around 80% of freshwater consumption



Superb Productivity

Say goodbye to wasted time and laborious cleaning routine with a cleaning efficiency up to 10,000 m²



Minimal Human Intervention

Optional workstation for self-docking power charging, water refill and discharge



Ergonomic Manual Mode

Easy manual operation - effortlessly walking and steering the machine with the ergonomic handle



Auto Spot Cleaning*

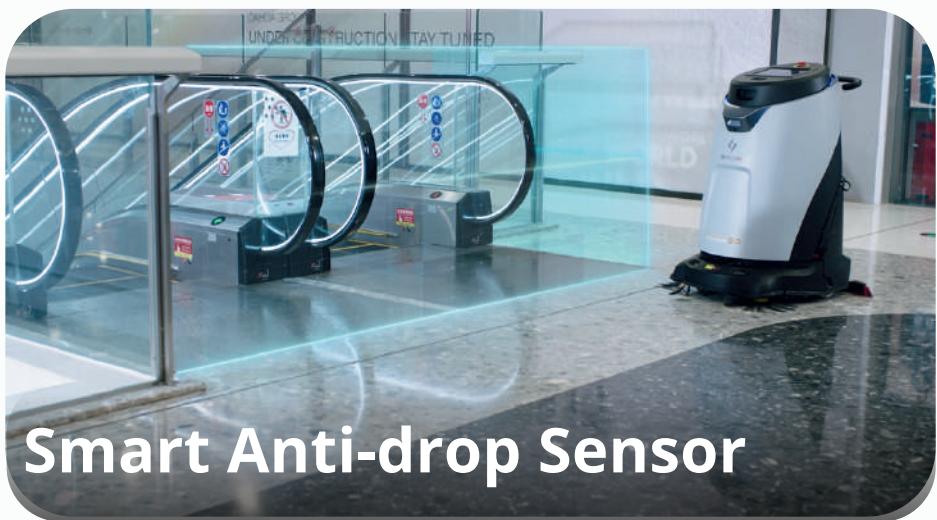
Scanning the cleanliness of the nearby floor and autonomously performing spot cleaning where wastes are detected, bringing up to 4X efficiency improvement



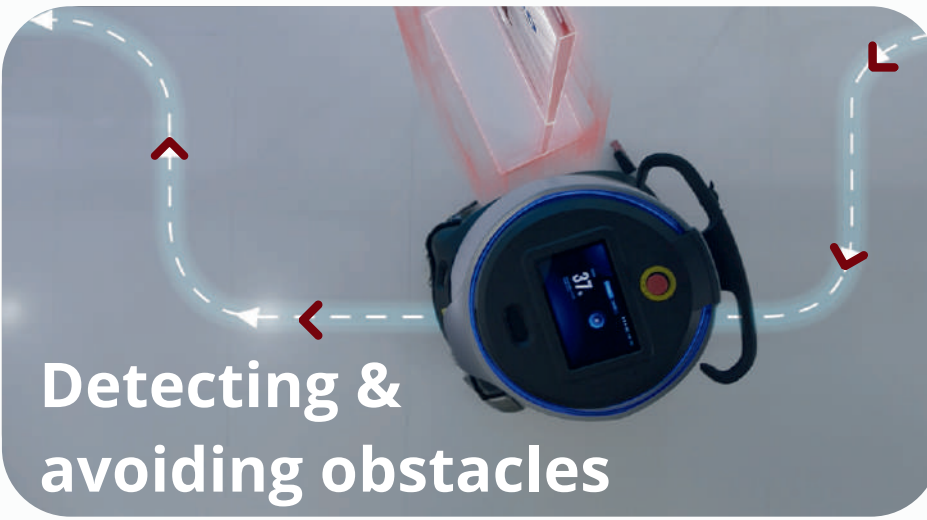
High Pressure Scrubbing



Advanced Navigation Engine



Smart Anti-drop Sensor



Detecting & avoiding obstacles



Charging Dock



Workstation

Specification



Product code	200-GS50-00	Cleaning coverage	Up to 10,000 m ²	Voltage	24V
Noise Level	55 dB(A)	Cleaning water tank	30L	Battery	Li-ion (60Ah)
Unladen weight	155kg	Recovery water tank	15L	Battery life span	Up to 2,000 cycles (full charge)
Dimension (cm)	81 (L) X 70 (W) X 107 (H)	Cleaning width/Suction width	46 cm / 70cm	Charging time	1.5 hours
Gradeability	Up to 8°	Brush pressure Brush speed	25 kg 150 rpm	Suction power	24kPa
Safety system:	LIDAR, 3D Depth Camera, RGB Camera, Anti-Collusion Sensor	Brush Type	2- Disc brush	Run-time	Up to 6 hours

IMEC ECOBOT 50X PRO PLUS

Ai Robotic Floor Sweep - Scrub



3 in 1 Cleaning

Integrating sweeping, scrubbing & dust mopping



5-Stage Filtration System

Reducing around 80% of freshwater consumption



Superb Productivity

Say goodbye to wasted time and laborious cleaning routine with a cleaning efficiency up to 10,000 m²



Minimal Human Intervention

Optional workstation for self-docking power charging, water refill and discharge



Ergonomic Manual Mode

Easy manual operation - effortlessly walking and steering the machine with the ergonomic handle

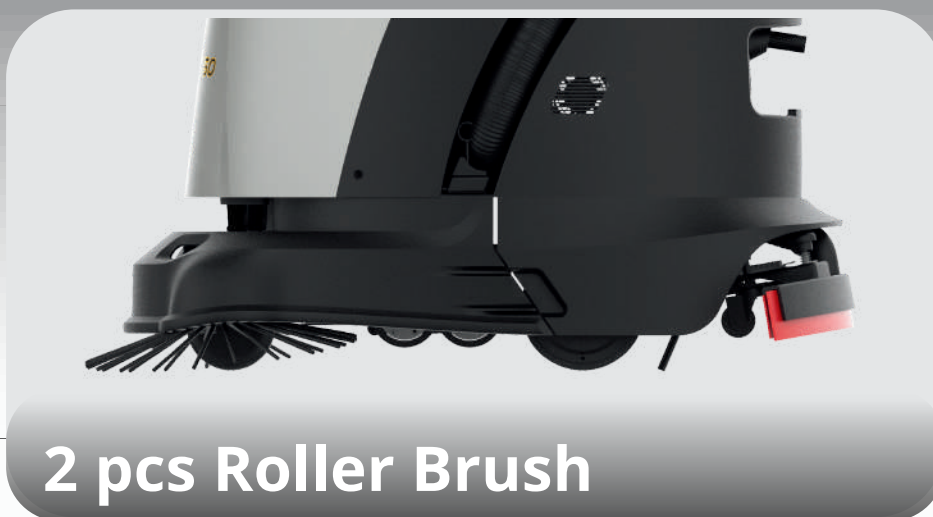


Auto Spot Cleaning*

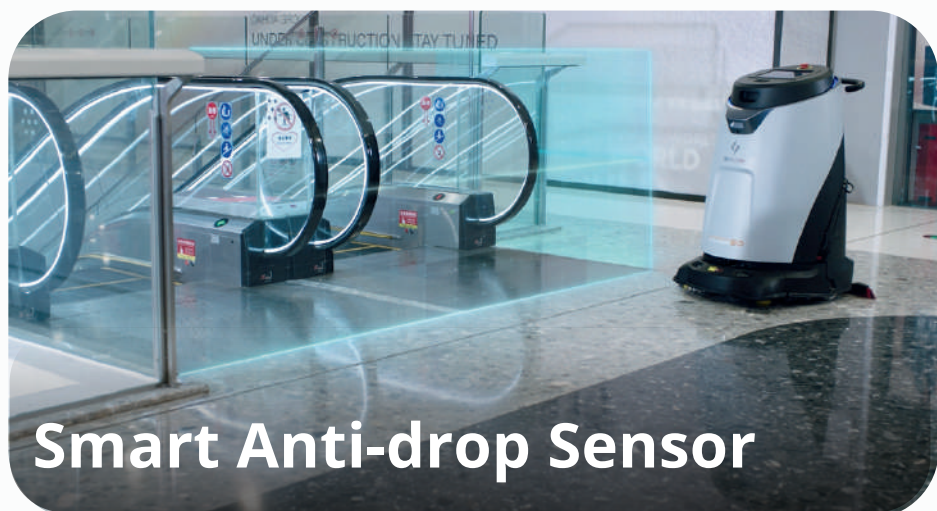
Scanning the cleanliness of the nearby floor and autonomously performing spot cleaning where wastes are detected, bringing up to 4X efficiency improvement



Edge-to-Edge Cleaning



2 pcs Roller Brush



Smart Anti-drop Sensor



Auto Spot Cleaning



Charging Dock



Workstation

Specification



Product code	200-GS50X	Cleaning coverage	Up to 10,000 m ²	Voltage	24V
Noise Level	55 dB(A)	Trash tray	5L	Battery	Li-ion (60Ah)
Unladen weight	128kg	Cleaning water tank	30L	Battery life span	Up to 2,000 cycles (full charge)
		Recovery water tank	15L	Charging time	1.5 hours
Dimension (cm)	81 (L) X 70 (W) X 107 (H)	Cleaning width/ Suction width	46 cm / 70cm	Suction power	24kPa
Gradeability	Up to 8°	Brush pressure	18 kg	Run-time	Up to 6 hours
		Brush speed	150 rpm		
Safety system:	LIDAR,3D Depth Camera, RGB Camera, Anti-Collusion Sensor	Brush Type	2- Roller brush 2- Side brush		

IMEC ECOBOT V40

Ai Robotic Commercial Vacuum



3 in 1 Cleaning

Integrating vacuuming, sweeping, dust mopping



Adaptability

Working perfectly on varying flooring types, be it a hard surface, a low pile carpet or a high pile carpet



Zero Distance from Edge

Able to clean along the edges zero-distance-close with side brushes and high-precision sensors



24 kPa Powerful Suction



H13 HEPA Filter

Medical-grade air purifying capability



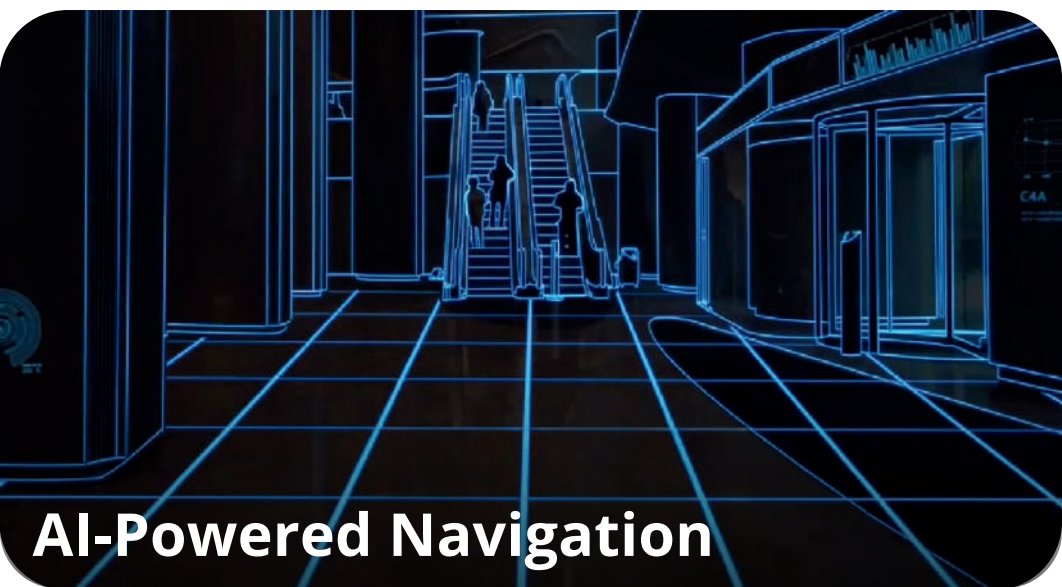
Flexible Task Combination



Auto Recharge



Large-Capacity Performance



AI-Powered Navigation



Charging Dock

Specification

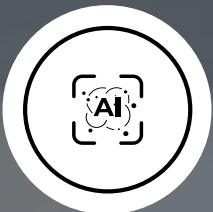
Product code	200-GS40	Cleaning coverage	up to 8,000 m ² /h	Voltage	24V
Noise level	55 dB(A)	Dust bag	12L	Battery	Li-ion (60Ah)
Unladen weight	80KG	Trash tray	2.5L	Battery life span	Up to 2,000 cycles (full charge)
Dimension (cm)	70 (L) X 72 (W) X 87.5 (H)	Cleaning width	40 cm	Charging time	1.5 hours
Gradeability	Up to 8°	Brush Pressure Brush speed	15 kg 120 rpm	Suction power	24kPa
Safety system	2D Lidar, 2D camera, long-range Lidar, secondary damage collision bumper sensor	Brush type	2- Side brush 2- Roller brush	Run-time	Up to 6 hours

IMEC PUDU MT1

Ai Robotic Sweeper



No Debris Too Big or Small



AI Trash Recognition



AI Spot Cleaning



User-Friendly Design



24/7 Continuous Operation



Rapid Adaptation to Changing Environments



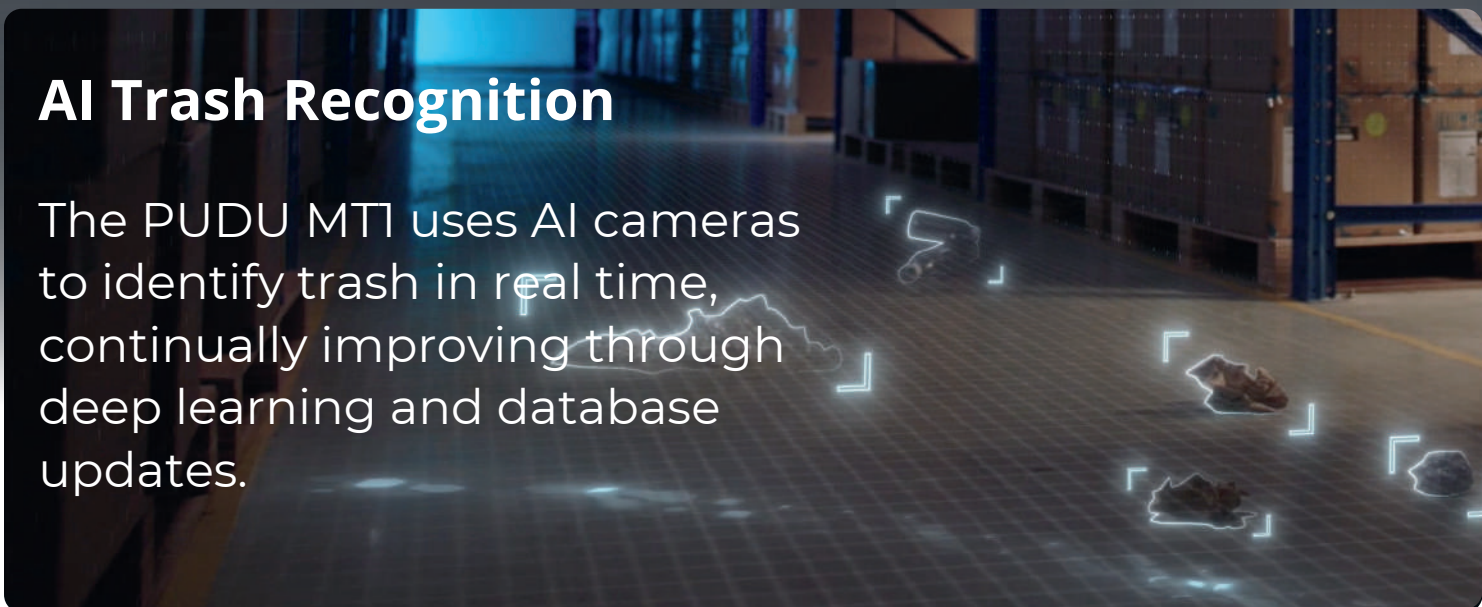
No Debris Too Big or Small

The dual-disc brushes easily handle larger debris like leaves and bottles, while efficiently sweeping up fine dust and dirt to ensure no small particles are left behind.



AI Trash Recognition

The PUDU MT1 uses AI cameras to identify trash in real time, continually improving through deep learning and database updates.



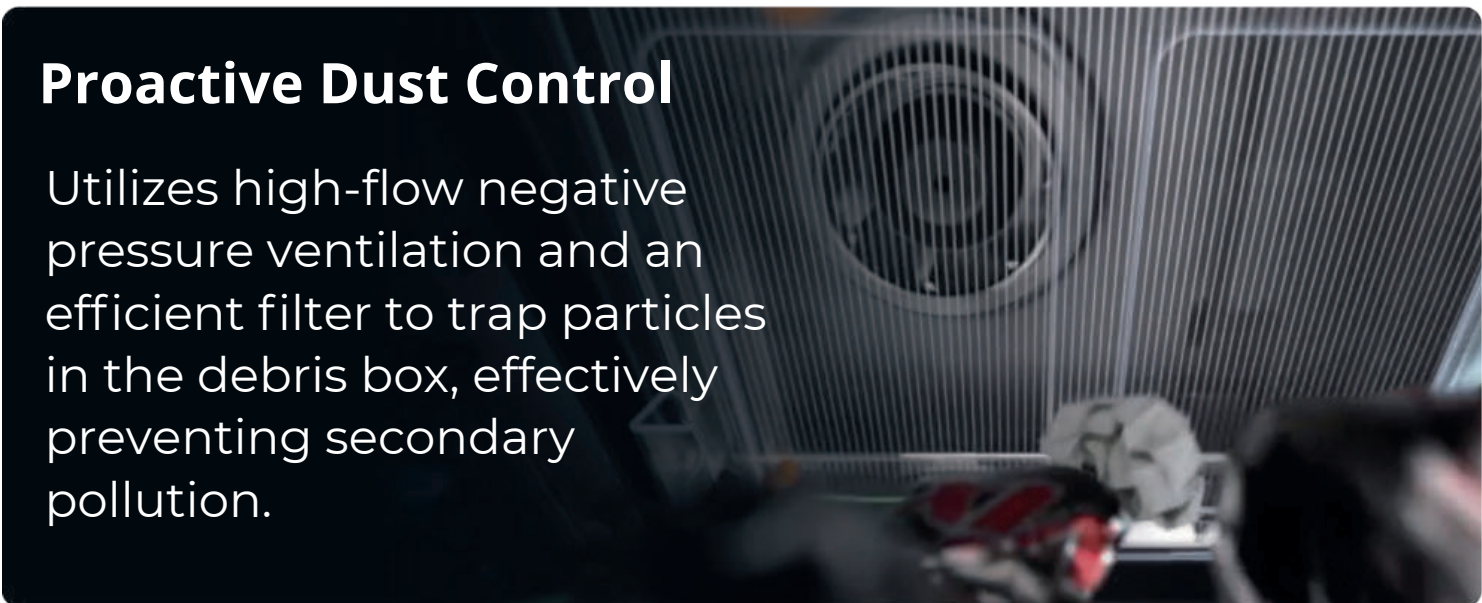
Multi-sense Safety

With three-dimensional depth perception and multi-sensor fusion for navigation and obstacle avoidance, the MT1 navigates complex spaces with ease.



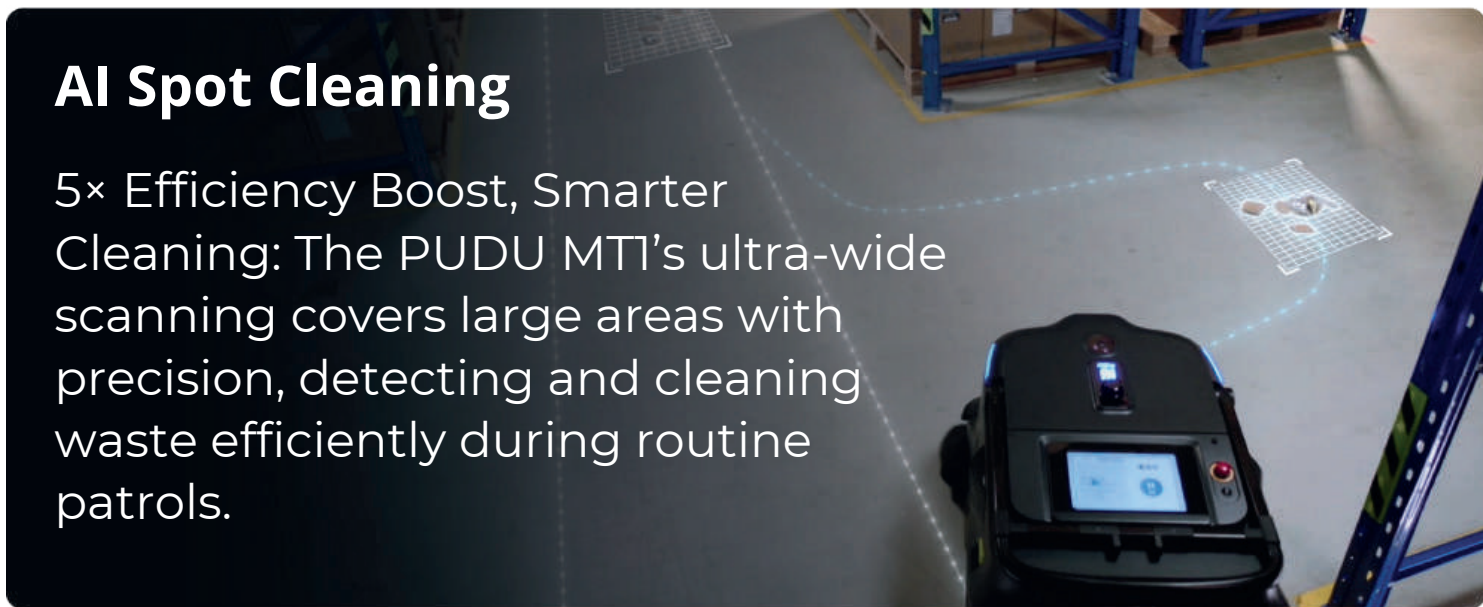
Proactive Dust Control

Utilizes high-flow negative pressure ventilation and an efficient filter to trap particles in the debris box, effectively preventing secondary pollution.



AI Spot Cleaning

5× Efficiency Boost, Smarter Cleaning: The PUDU MT1's ultra-wide scanning covers large areas with precision, detecting and cleaning waste efficiently during routine patrols.



Charging station


Specification


 **reddot** winner 2025

Product code	200-1400	Cleaning coverage	up to 10,000 m ² /h	Voltage	24V
Noise level	60 dB(A)	Trashbin capacity	35L	Battery	Li-ion (45Ah)
Unladen weight	65 kg	Path clearance	Min.75 cm	Battery life span	Up to 2,000 cycles full charge)
Dimension (cm)	84 (L) X 60 (W) X 49 (H)	Cleaning width	70 cm	Charging time	2.5 hours
Gradeability	Up to 8°	Safety system	VSLAM,Lidar SLAM,RGBD,RGB sensor,Line laser sensor,bumper sensor,anti-drop sensor	Run-time	Up to 8 hours


IMEC ECOBOT 75P


Ai Robotic Heavy-Duty Floor Scrubber

- 
- Integrating scrubbing, sweeping, dust mopping and degreasing
 - Up to 3,000 m²/h cleaning efficiency

- 
- Advanced Lighting System**
Adopting flashing light, blue projection light and supplement light, distinctively communicating the machine position through vehicle-identifiable signals

- 
- 5-Stage Filtration System**
Reducing around 80% freshwater consumption

- 
- Integrates 4-in-1 Cleaning Task**
Scrubbing, Sweeping, Dust Mopping & Degreasing

- 
- Oil Stain Cleaning**
Able to mark oil stains in the map and perform thorough oil cleaning

- 
- Minimal Human Intervention**
Reducing around 80% freshwater consumption



270° Front-Mounted Brush Head



Reverse Dry Cleaning



Ergonomic Step-on Mode



Advance Lighting & Sensing System



Workstation

Specification

ids
Best-in-Class Sensing

Product code	200-GS75P	Cleaning coverage	Up to 20,000 m ² /h	Voltage	29V
Noise level	55-70 dB(A)	Cleaning water tank / Recovery water tank	75L / 50L	Battery	Li-ion (240Ah)
Unladen weight	400KG	Trash tray / Chemical	5L / 5L	Battery life span	Up to 2,000 cycles (full charge)
Dimension (cm)	137 (L) X 96.2 (W) X 141.7 (H)	Cleaning width	75cm	Charging time	3 hours
Gradeability	Up to 8°	Brush Pressure / Brush speed	50 kg / 270 rpm	Suction power	26kPa
Safety System:	3D Lidar, 3D camera, long-range Lidar, touch sensor (rear wheel), tilt laser, secondary damage collision bumper sensor, millimeter wave radar system	Brush type	3- Disc brush / 2- Roller brush	Avg. run-time	Up to 6 hours



Commercial Delivery Robots

Enhancing delivery efficiency and brand promotion through reliable robotic solutions.

IMEC PUDUBOT 2

Universal Delivery Robot



VSLAM+



Industry-leading Chassis System



Developed Servo In-wheel Motor



Dual Lidar, Precise Perception



Fully Enclosed Machine Design



PUDU VSLAM+

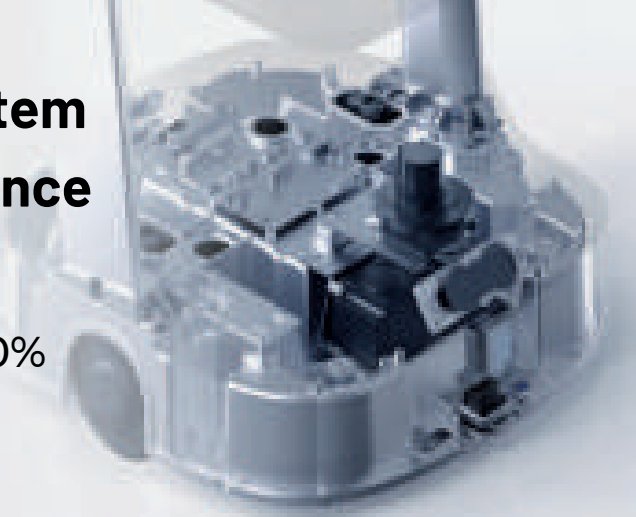
New Generation Technology

- Marker - less technology reducing 75% deployment time
- Capable of operating in high-ceiling environments up to 30meter



Industry-leading Chassis System Better Stability and Performance

Adapt to various road surfaces, 30% improvement in moving stability



Developed Servo In-wheel Motor

- 33% increase in load capacity
- 16% improvement in energy utilization



High Performance Li-ion Battery

Operates up to 24h on a 4h charge. Enhanced safety and reliability

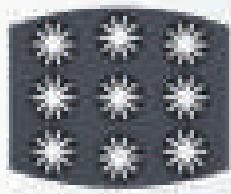


Calling and Notification Autonomous and Flexible

Support 4G Watch, Pager, and Link, allowing one-click task assignment and management



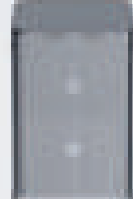
Accessories



Fixed Cup Holder



Elevator Control System



Protection Case



Charging Station

Specification

Product Code	200-1300	Voltage	29V	Battery	24Ah
Material	ABS	Speed	Up to 1.2 m/s	Battery life span	Up to 2,000 cycles (full charge)
Unladen weight (kg)	40 kg	Loading capacity	Up to 40 kg	Charging hour	2 Hours
Dimension (cm)	58 (L) X 53.5 (W) X 129 (H)	Path clearance	60 cm	Avg. Run-time	Up to 8 Hours

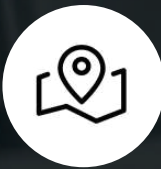
IMEC PUDU BELLABOT

Premium Delivery Robot



Upgraded All-New Delivery Capabilities

Master in delivery, cruising , and escorting guests



Industry First Dual SLAM Technology

Support both Visual SLAM and Laser SLAM navigation solutions
full coverage in any scenario



Four Core Escort Functions

Centimeter-level real-time positioning high-precision optimal route
planning, and 0.5 second instant response for obstacle avoidance



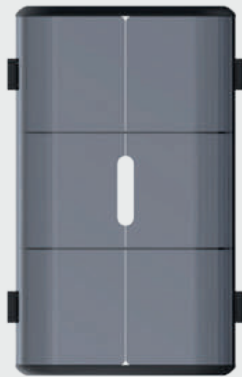
Superlative Trafficability - Stable Operations

A minimum clearance at 70cm, and auto level suspension to ensure
smooth and steady operation



PUDU Cloud Service

Intelligent Cloud Scenarios & Robot Service Cloud provide data
support for scenario-based operations



Enclosed Dish Cover

3 layers of large space, magnetic
door opening method, contactless
delivery, safer service.

Cover material	Plexiglass / Mg-Al alloy
Cover weight	16kg
Cover dimensions	514*420*677mm
Load capacity	3 trays, 10 kg/tray
Door opening method	Magnetic Switch

Multimodal Interaction

Light interaction, touch feedback and smart expression bring an
unprecedented human robot interaction experience.

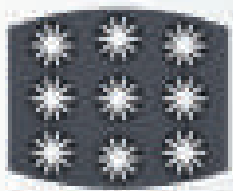


Intelligent Tray

The modular quick release
structure and intelligent
infrared sensing ability
create intelligent trays and
a more efficient delivery.



Accessories



Fixed Cup Holder



Elevator
Control
System



Protection Case



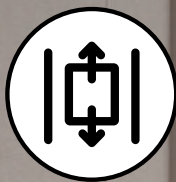
Charging Station

Specification

Product Code	200-1200	Voltage	29V	Battery Capacity	29Ah
Material	ABS	Speed	0.50 - 1.2m/s	Battery LifeSpan	Up to 2,000 cycles (full charge)
Unladen weight (kg)	57 kg	Loading Capacity	Up to 40 kg (10kg / Shelf)	Charging Hour	2.5 Hours
Dimension (cm)	53.7(L) X 56.5(W) X 129(H)	Path clearance	70cm	Avg.run-time	Up to 12 Hours

IMEC FLASHBOT

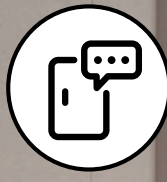
Building Delivery Expert



Cloud & Hardware Solutions for Elevator Control



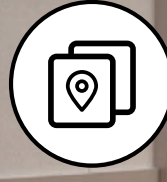
VSLAM+ Semi-outdoor Delivery



Multiple Compartment Access Verifications



Full-Scope IoT Integration



Rapid Multi-floor Deployment



Modular Adjustable Compartments



VSLAM+ Semi-outdoor Delivery



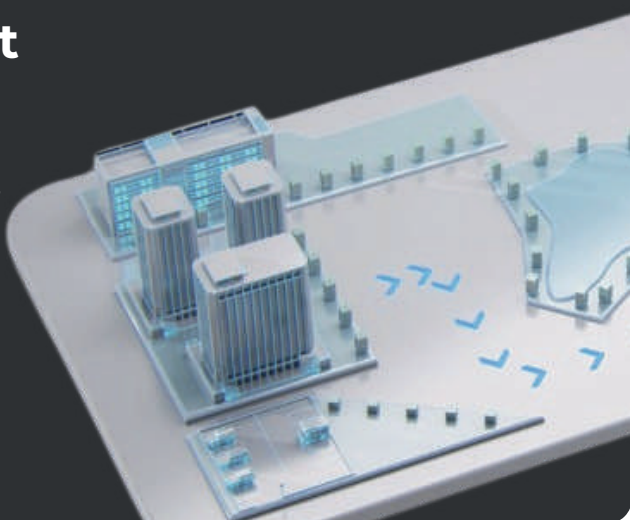
Autonomous Elevator Control

Effortlessly navigates narrow corridors in various buildings and easily adapts to diverse elevator environments.



Rapid Multi-floor Deployment

Supports rapid multi-floor map replication, enabling quick mapping and enhancing deployment efficiency and ease of operation.



Multiple Compartment Access Verifications

Supports password verification, phone number verification, and NFC sensing for compartment access



Modular Adjustable Compartments



2-Compartment



3-Compartment

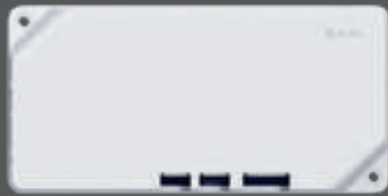


4-Compartment

Accessories



Charging Station



Turnstiles/Automatic doors Control Components



Elevator Control System



Pager

Specification

Product Code	200-1100	Voltage	29V	Battery capacity	24Ah
Material	ABS	Speed	0.5-1.2 m/s	Battery lifespan	Up to 2,000 cycles (full charge)
Unladen weight (kg)	50 kg	Loading Capacity	Up to 40 kg. 10kg Shelf	Charging hour	2.5 Hours
Dimension (cm)	53.9(L) X 51.5(W) X 105(H)	Path clearance	70cm	Avg.run-time	Up to 8 Hours

Leading the Future of Hygiene Automation



COMING SOON



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