

Commercial AI Cleaning Robots

AI Cleaning Partner for Facility Management



Benefits of Commercial AI Cleaning Robots



Consistent Cleaning Quality

Deliver consistent cleaning performance throughout intelligence automation.



Sustainability

Reduces water, chemical, and energy usage through optimised cleaning cycles for a greener operation.



Data & Reporting

Automated cleaning logs and performance analytics for full visibility and compliance reporting.



Fleet Management

Centralised monitoring and remote management of multiple robots in real time.



AI Mapping

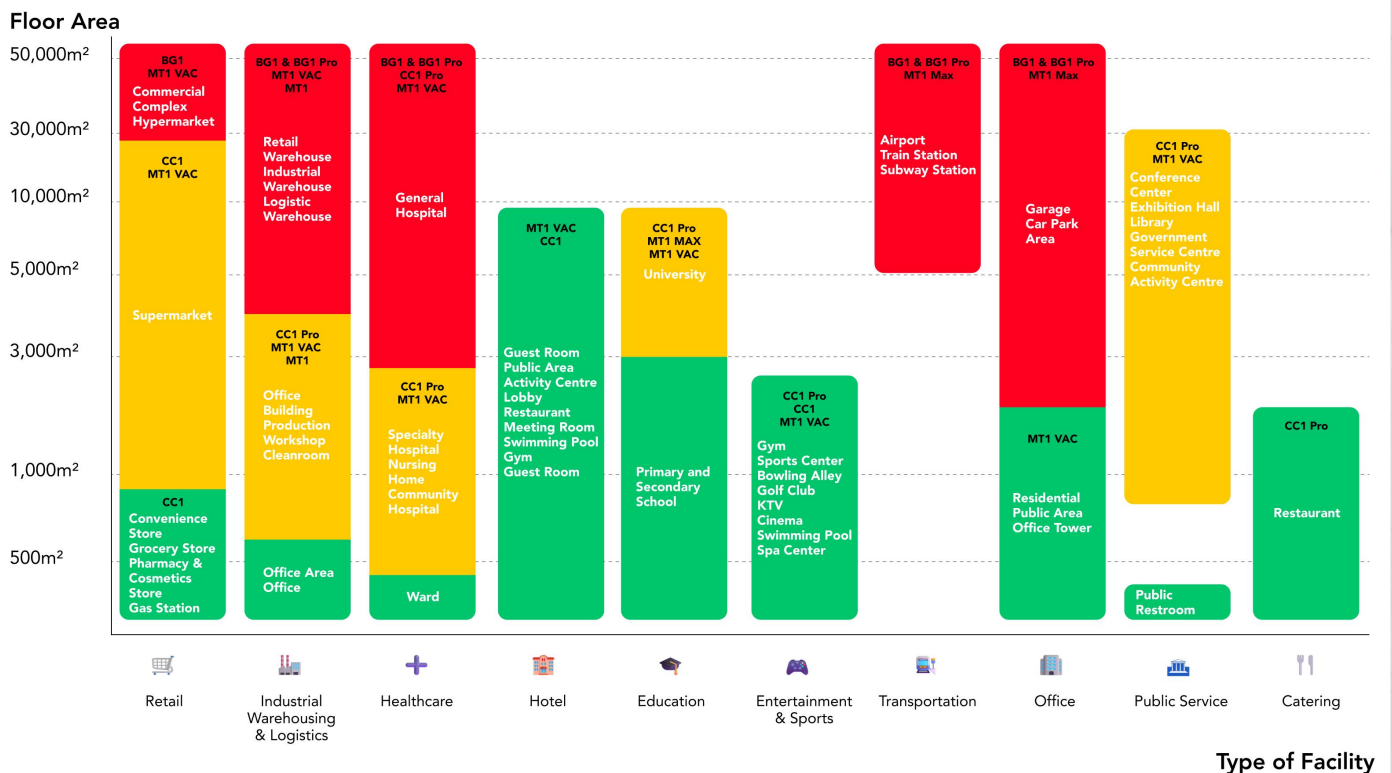
Real-time mapping and dynamic route optimization for maximum cleaning coverage.



Autonomous Navigation

Intelligent path planning and obstacle avoidance for safe and efficient cleaning.

Application of AI Cleaning Robots for Different Facilities & Floor Area Sizes



*Applications are indicative recommendations based on typical facility requirements and may vary by specific environment.

PHANTAS

Compact AI Cleaning Robot



All-In-One Floor Cleaning

Integrates vacuuming, scrubbing, dust mopping.



Floor Type Recognition

Identifies flooring type 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 aisle 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



Auto/Manual Mode Transitions



Mobile Tank



Charging Desk



Workstation

Suitable Venues



Offices



Hospitality & Hotels



Retail



Healthcare & Clinics



Educational Institutions

Specifications

 Product Code	200-G5PT	 Cleaning Coverage	Up to 3,000m ²	 Voltage	20V
 Noise Level	65 dB(A)	 Dust Bag	6L	 Battery	Li-ion (24Ah)
 Unladen Weight	48KG	 Water/ Recovery Tank	12L/8L	 Battery Life Span	Up to 2,000 Cycles (Full Charge)
 Dimensions (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	10KG 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	 Average Run-Time	Up to 5 Hours

CC1

All in One, One for All



Auto Power
Charging, Auto
Water Addition &
Drainage



Diversified
Consumable



Mobile Water
Tank No Plumbing
Modification



Dynamic Space
Perception



Suitable Venues:

- Office
- Industrial
- Retail
- Hotel
- Healthcare
- Educational Institutions
- Public Services

Versatile Cleaning

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



Auto Power Charging & Water Refill and Discharge

No manual intervention worry
free and labour-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.



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.



Mobile Water
Station



Charging
Station



Docking
Station

Specifications

 Product Code	200-1000-GRN	 Cleaning Coverage	Up to 8,000m²	 Voltage	24V
 Noise Level	70 dB(A)	 Dust Bag	2.5L	 Battery	Li-ion (60Ah)
 Unladen Weight	75KG	 Water/Recovery Tank	15L/15L	 Battery Life Span	Up to 2,000 Cycles (Full Charge)
 Dimensions (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	18KG 180 rpm	 Suction Power	17kPa
 Sensing System	Visual SLAM, LiDAR SLAM	 Brush Type	1- Side Brush 2- Roller Brush	 Average Run-Time	Up to 6 Hours

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



Suitable Venues:

- Data Centre
- Airport
- Retail
- Convention Centre
- Warehouse
- Industrial
- Logistics Centre

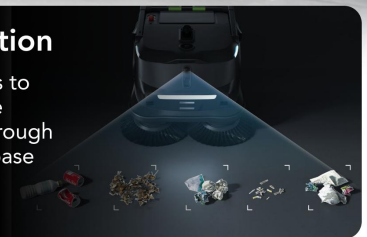
No Debris Too Big or Small

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



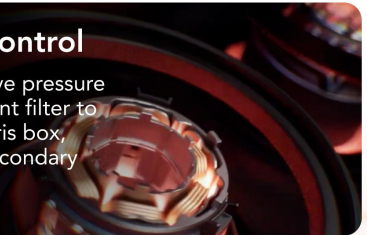
Multi-sense Safety

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



Proactive Dust Control

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



AI Spot Cleaning

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



Charging Station

Enables autonomous docking and fast charging in under 3 hours. It supports 24/7 continuous operation by letting the robot complete up to three full-charge cycles daily.



Specifications

</>	Product Code	200-1400		Cleaning Coverage	Up to 10,000m ²		Voltage	24V
	Noise Level	60 dB(A)		Trashbin Capacity	35L		Battery	Li-ion (45Ah)
	Unladen Weight	65KG		Path Clearance	Min 75 cm		Battery Life Span	Up to 2,000 Cycles (Full Charge)
	Dimensions (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 Lare Sensor, Bumper Sensor and Anti-Drop Sensor		Average Run-time	Up to 8 Hours

ECOBOT OMNIE

Compact AI Cleaning Robot



3-In-1 Cleaning

Integrates sweeping, scrubbing, dust mopping.



5 Stage Filtration

reducing around 90% of freshwater consumption.



Superb Productivity

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



Spot Cleaning Mode

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



Ergonomic Manual Mode

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



Fast Charger

Saves up to 6 hours of operation time with full charging capability in just 1 hour.



Smart Anti-drop Sensor



Auto Spot Cleaning



Edge-to-Edge Cleaning



2 Pieces Roller Brush

Suitable Venues



Airports



Offices



Retail



Educational Facilities



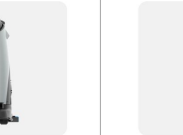
Healthcare & Clinics

Specifications

</>	Product Code	CG050B6E0000421-T	🌀	Cleaning Coverage	Up to 10,000m ²	⚡	Rated Voltage	24VDC
🔊	Noise Level	55 dB(A)	🕒	Max Cleaning Speed	1.4 m/s 3.1 mph	🔋	Battery	Li-ion Phosphate (60Ah)
📊	Unladen Weight	157KG	📦	Clean Water Tank/Waste Water Tank	33L/24L	🔋	Battery Life Span	Up to 2,000 Cycles (Full Charge)
📏	Dimensions (cm)	81(L)x 70(W) x107(H)	↔	Min. Pass Width	80 cm	🕒	Charging Time	2 Hours
📏	Gradeability	4.6°	↔	Min U-Turn Width	110 cm	🕒	Average Run-Time	Up to 8 Hours
🧠	Sensing System	3D LiDAR, 2D LiDAR, 3D Depth Camera, RGB Camera, Anti-Collision, Anti-Drop	🧹	Brush Type	1- Disc Brush 2- Roller Brush			

Comparison Features of IMEC-Pudu & IMEC-Gausium Commercial AI Cleaning Robots

	CC1	CC1 Pro	BG1/BG1 Pro	MT1 Sweeper	MT1 VAC	MT1 Max
Product Image						
Primary Function	4-in-1 (Sweep, Scrub, Vacuum, Mop)	Enhanced 4-in-1	Scrubbing focus	Sweeping (industrial)	Sweeping, vacuum	Heavy-duty sweeping
Target Area	Medium-large indoor	Medium-large (higher spec)	Medium commercial	Very large/ industrial	Large dusty areas	Mega scale industrial
Coverage Efficiency	1,000m²/h	AI-covered Cleaning 700-1,000m²/h 7,536-10,764ft²/h Spot Cleaning 1,500-3,000m²/h 16,146-23,292ft²/h	AI-covered Cleaning max 2,000m²/h 21,528ft²/h Spot Cleaning max 6,000m²/h 64,583ft²/h	AI-covered Cleaning max 1,800m²/h 19,375ft²/h Spot Cleaning max 10,800m²/h 19,375ft²/h	AI-covered Cleaning max 2,200m²/h 23,681ft²/h Spot Cleaning max 7,000m²/h 75,347ft²/h	1,100-1,800m²/h 11,840-19,422ft²/h
Naviagtion	SLAM (LiDAR + vision)	Improved AI + sensors	Standard AI navigation	Industrial-grade navigation	Same platform	Advanced AI
Speacial Feature	17,000 Pa suction	Better efficiency + Autonomy	Compact scrubber	Large debris sweeping	Dust control upgrade	High-pressure scrubbing
Automation	Auto dock + water refill	Full automation upgrade	Docking optional	Autonomous Sweeping	Autonomous	Full auto system
Water System	15L clean / 15L waste	Larger / optimised	Yes (scrubber)	No	No	Yes
Best Use Case	Office, retail, hospital	Higher-end facilities	Clinic, retail	Warehouse, factory	Dust-heavy warehouse	Airport, mall

	Phantas	Vacuum 40	Omnie	Mira	Coming Soon	Marvel	Coming Soon
Product Image							
Primary Function	4-in-1 (vacuum, sweep, scrub, mop)	Vacuum only	Scrubber (AI dynamic scrub)	Scrub, vacuum		Multi function (sweep, scrub)	
Target Area	Small-mid, tight spaces	All indoor, dust-focused	High-traffic dynamic areas	Mid-size areas		Large complex spaces	
Coverage Efficiency	350-700m²/h 3,767-7,535 ft²/h	1,200m²/h 12,900ft²/h	2,016m²/h 21,700ft²/h	2,016m²/h 21,700ft²/h		2,016m²/h 21,700ft²/h	
Naviagtion	AI + 3D perception	Ai navigation	Advanced AI (dynamic env.)	AI navigation		Advanced AI	
Speacial Feature	Up to 90% cleaning (up to 4X efficiency)	Dedicated dust control	Real-time adaptation	Balanced performance		Multi-scenario	
Edge Cleaning	0 cm edge cleaning	Limited	Strong	Moderate		Strong	
Operation Mode	Autonomous + manual	Autonomous	Autonomous	Autonomous		Autonomous	
Decking Automation	Full workstation (water + charging)	Charging dock	Full automation station	Docking		Full system	
Decking Automation	Office, retail, hotel	Carpet, dust-sensitive area	Airport, mall, hospital	Commercial mid-size		Large commercial complex	

Contact Us



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