GAUSIUM

All in One One for All

Phantas

Ideal for Small and Medium-sized Facilities

Phantas is specially designed for cleaning in small and medium sized facilities. The small size of Phantas enables superior passability and flexible movement in tight spaces such as under-table areas and narrow aisles.

- 520mm Min. Passable Width
- 650mm Min. Passable Height

Fitting Varied Floor Types

Phantas is a versatile robotic cleaner with 4 floor cleaning modes —vacuuming, scrubbing, sweeping and dust mopping. It can operate on most hard flooring materials, and also works perfectly on low pile carpets. The robot can recognize floor types and will switch cleaning modes to fit different flooring materials.

- 4 Cleaning Modes
- Floor Type Recognition

Navigating Safely in Complex and Dynamic Environments

In a dynamic environment, Phantas will locate itself in the real time and would not get lost due to environmental changes. Powered by AI deep learning, Phantas can recognize different types of obstacles and make advanced behavior decisions accordingly. e.g., It would bypass electric wires rather than passing them over directly.

- Real-time Localization
- Smart Obstacle Avoidance

Providing On-Demand Cleaning

Phantas is an “on-demand cleaner” that provides floor cleaning services wherever and whenever needed. The Auto Spot Cleaning allows the robot to clean where waste is detected; the self-service docking stations extend the robot’s uptime for around-the-clock operation; the mobile app enables cleaning tasks to be activated anytime and anywhere in the map.

- Auto Spot Cleaning
- Self-service Docking Station
- Remote-control App

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Key Features:

All-in-one Floor Cleaning

Integrates vacuuming, scrubbing, sweeping, dust mopping

Auto Spot Cleaning

Autonomously performs spot cleaning where waste is detected, bringing up to 400% efficiency improvement

Hassle-free Mapping

Easy mapping and map editing via the touchscreen and mobile app

Smart Obstacle Avoidance

Recognizes obstacle types and makes advanced behavior decisions according to the types and features of obstacles

Floor Type Recognition

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

Strong Passability

Able to pass through aisles as narrow as 520mm and as low as 650mm to clean under desks

Zero-distance Edge Cleaning

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

Minimal Human Intervention

Paired with a charging dock for auto power recharge, and a water tank trolley (optional) for easy water refill

Superb performance in a broad range of applications:

Workspaces | Retail Stores | Apartments | Hospitals | Schools | etc.

SPECIFICATION

DIMENSION	
Length	540mm | 21.3 in
Width	440mm | 17.3 in
Height	617mm | 24.3 in
Net Weight	46kg | 101 lb
Vacuuming/Sweeping Width	410mm | 16.2 in
Scrubbing Width	330mm | 13 in
CLEANING	
Cleaning Efficiency	400 - 700m^2/h | 4,305 - 7,534 ft^2/h
Water Tank Capacity	Coverage > 1000 m^2 | > 10,763 ft^2
Dust Bag	8 L | 2.1 gal
Trash Can	0.7 L | 0.2 gal
MOVEMENT	
Gradeability	8°
Max.Cleaning Speed	0.8 m/s | 1.8 mph
Min.Passable Width	520mm | 20.5 in
Min.Passable Height	650 mm | 25.6 in
Min.Turn-around Width	620 mm | 24.4 in
Min.Height of Detected Obstacles	10 mm | 0.39 in
Edge Cleaning Capability	0 mm
ELECTRICAL	
Runtime	Scrubbing 5h, Vacuuming 5h Sweeping 18h, Dust Mopping 10h
Charging Time	2 hours
Sound	< 65dB
SENSING	
Standard	LiDARs, 3D Depth Cameras, RGB Camera Anti-drop Sensor, Anti-collision sensor
ACCESSORIES	
Optional	Charging Dock, Water Tank Trolley

Gaussian Robotics
Valeton 4 N, 5301LW Zaltbommel, The Netherlands

Our Offices:
Singapore 3 Fusionopolis Place, Galaxis Work Loft #04-52/53 Singapore
HongKong SAR RM 212, Core Building No.1E, Hong Kong Science Park Phase 1, 1 Science Park East Avenue, Shatin, NT
Mainland China No. 666 Shengxia Rd., Pudong District, Shanghai, China

+31 (0)611872148 E-mail: support@gausium.com www.gausium.com
@Gausium Official