



**Sweeper 111**  
High Performer, Whether Indoors or Outdoors

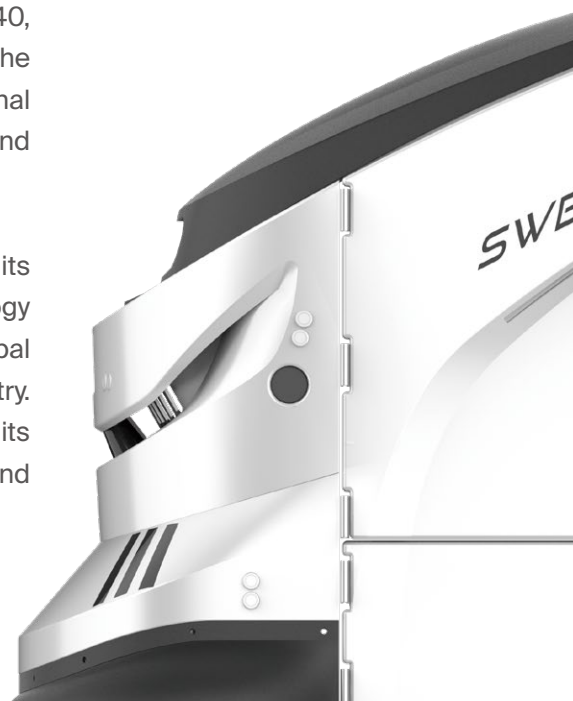
# PRODUCT RANGE



## ABOUT GAUSIUM

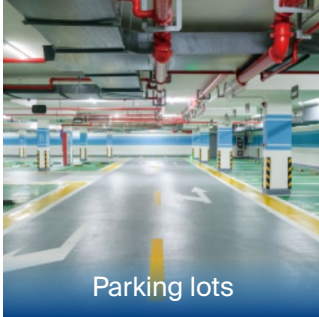
Gausium (alias "Gaussian Robotics") develops and manufactures cleaning robots to co-work with people. The Gausium cleaning robots are comprehensive range of floor cleaning robots, which includes: Vacuum 40, Scrubber 50, 50 Sprayer, Scrubber 75, Sweeper 111 and more in the pipeline. They have been deployed in thousands of commercial, institutional and industrial facilities around the globe to deliver professional and consistent cleaning services.

Founded in 2013 out of a passion for autonomous driving, Gausium built its class-leading autonomous navigation based on advanced SLAM technology and integrated it into cleaning machines. It has since grown into a global leader and is now setting the benchmark for the cleaning robot industry. Today, it has rapidly expanded into a team of over 1000 employees with its headquarter in Shanghai and overseas offices in Singapore, Hong Kong and the Netherlands.



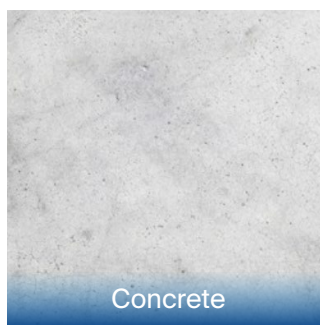
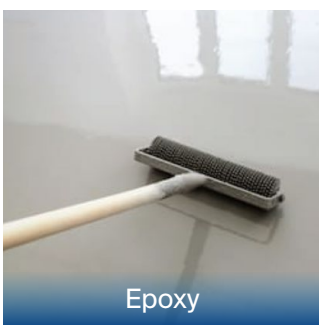
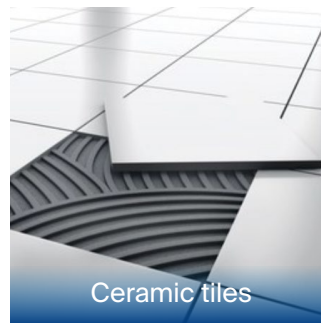
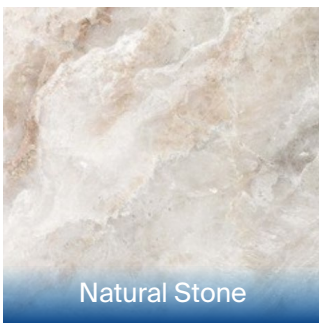
# APPLICABLE SCENARIOS

Sweeper 111 is ideal for heavy-duty cleaning in large indoor and outdoor environments, including Manufacturing plants, Warehouses, Industrial Parks, Campus, Plazas, Parks & Pleasure grounds, Harbor grounds, etc.



# FLOORING TYPES

Sweeper 111 is applicable to different types of flooring, including Bituminous Road, Rubble flooring, PVC & Vinyl flooring, Epoxy, Concrete, etc.



# CORE STRENGTHS

## SIMPLICITY – Minimal Human Intervention Operation (M.H.I.O)



### Easy Deployment

- User-friendly display with intuitive menu, accelerating setup and adoption
- Flexible operation methods, controlling the machine through touch screen, mobile APP or cloud platform
- Mapping, map editing and task creating can be done by the operator on the display without external assistance



### Dual Operation: Autonomous + Manual (Step-on mode)

- Switches between auto and manual Step-on mode with a simple command
- Ergonomic Step-on mode - effortlessly carry the machine to navigate around the site

## INTELLIGENCE – Boldly go where no other cleaning robot has gone before



### Auto Dumping

- Create dumping point and set auto-dumping time in the App
- Recognizes the garbage bin and completes the dumping process automatically



### Advanced AI navigation system empowered by semantic SLAM

- Real-time Auto-cover: Dynamically maps and plans cleaning paths to maximize cleaning coverages in a changing environment
- Incredibly fast mapping: 30 mins to map a 2,000 sqm site(\*)
- Flexible map editing: Mark virtual walls and highlight areas to avoid collision and damage



### Remote task scheduling, activation and maintenance

- Real-time data transmission and monitoring, getting real-time information of the operational status and cleaning progress
- Sends detailed cleaning task reports via email or SMS, letting your data demonstrate your commitment to a quality clean



### Flexible task combination, customizing cleaning plans in complex scenarios

- Teach & Follow (Auto repeat)
- Auto-cover (Auto fill-in)
- Real-time Auto-cover (Returning to occupied spaces)
- Sketch (Point to point)



### Recovery

- Resumes previous unfinished task after interruption



## PRODUCTIVITY – Exponentially improves cleaning efficiency



### Advanced cleaning efficiency

- Up to 5,500 sqm/h cleaning efficiency (\*)

### Excellent garbage absorbing capacity

- Absorbs garbage of various shapes and sizes, including beverage bottles, milk cartons, cigarette butts, bamboo sticks, fine dust, sand etc.

### Super capacity

- 60L trash bin

## MANEUVERABILITY – Access restricted area while cleaning



### Robust Construction with high maneuverability

- Ergonomic Steering Wheel & Handle
- Differential drive axel

## SAFETY – Cutting-edge obstacle detection & avoidance



### 360° visibility – Super Obstacle Detection & Avoidance

- 30+ sensors (including 3D lidar) all over the machine body: Reacts to the changes correspondingly and automatically while sweeping, detecting and avoiding static and dynamic obstacles from all directions and in real time
- Equipped with Anti-fall sensor, Anti-collision sensors, Soft-touch bumper, E-stop Button etc., providing all-round safety
- Automatic filtration system - fine dust filtration for a safe and healthy air exhaust



(\*Under ideal conditions)

# KEY BENEFITS

**SUSTAINABILITY** – Create long-term value by taking an eco-friendly approach



## Energy Saving

- Calculates the most efficient path to reduce energy consumptions
- Calculates the required power for completing the remaining cleaning task and charges corresponding amount of power automatically

**COST-EFFICIENCY** – Invest in Gausium's quality and technology that significantly drive down cleaning cost



## Low total cost of ownership

- The large capacity, Lithium batteries, elevator integration and optional charging dock, all ensure a high ROI and low maintenance costs



## Cut down labor cost

- Functions of task scheduling and real-time reporting simplify your cleaning management and lower labor costs

**BETTER IMAGE** – Enhance facility image by embracing a consistent, sustainability oriented clean



## Marketing value

- The visual appearance of the Gausium robot shows visitors your taking their health and safety seriously, demonstrating your company as a clean and trendsetting organization
- The adoption of Gausium's water-saving and energy-efficient cleaning solutions manifests your company's commitment to CSR initiatives



# WHAT OUR CUSTOMERS SAY

“ The robot takes a lot of time off our work in the area, which we can put into more elaborate handicrafts. We have tested it intensively here and are sure that it will soon support us permanently in our day-to-day business.

(translated from German)

– Georgios Sarantos  
Dussmann Service (Germany)

“ The cleaning service partners operating the Gausium robot at the airport generally find it safe, easy and efficient to use it. The robot's adoption and awareness of its capabilities by the cleaning team and leveraging on its technology for its daily cleaning operations is increasingly improving.

– Jerome Francis  
Changi Airport Operations  
Management (Singapore)

“ Our robots work 24 hours a day without compromising the efficiency. So, we provide a cleaner service with a unique quality and comfort level for our customers.

(translated from Polish)

Seris Konsalnet (Poland)

“ Our train presentation and station cleaning teams have been working tirelessly throughout the pandemic and the new Eco Bot (Scrubber 50) will help free up a lot of time, so colleagues can focus on additional sanitisation.

– Simone Bailey  
Greater Anglia (UK)

“ With this technological robot, it renews itself day by day. It has systems that can take the elevator. Scrubber 50, a small one of which can take the elevator, charge itself, fill and empty its own water...If it sees a living thing, it changes its path. You can manage it via the panel, web or mobile. You have the cleaning done over and over again by using the remote panel without being there.

(translated from Turkish)

– Nazlı Uzunlar  
UFS Facility Services (Turkey)

“ Continuing to implement our innovative cleaning solutions with these robotic floor scrubbers and driers... There's a reason we're one of the UK's leading cleaning service providers.

Mitie Cleaning Services (UK)



# SPECIFICATION

| FEATURE                                   | SWEEP   |
|---|---|
| SIZE                                      | L1530*W1010*H1400MM<br>(L60*W40*H55IN)                    |
| UNLADEN WEIGHT                            | 500KG (1,100LB)   |
| CLEANING WIDTH                            | 1,100MM (43 IN)   |
| THEORETICAL MAX.<br>CLEANING PRODUCTIVITY | 5,500M <sup>2</sup> /H (59,200FT <sup>2</sup> /H)         |
| MAX. AIR FLOW VOLUME                      | 2L/MIN  |
| RATED VOLTAGE                             | 24V DC  |
| MAX. OUTPUT POWER                         | 2,500W (3.4HP)  |
| MAX. MOVING SPEED                         | 1.2M/S (2.7MPH)   |
| MAX. PASSABLE OBSTACLE HEIGHT             | 40MM (1.6IN)  |
| SIDE BRUSH                                | HEIGHT ADJUSTABLE 2*Ø400MM (15.7 IN)                      |
| ROLLER BRUSH                              | FRONT FIXED + REAR ADJUSTABLE,<br>2*Ø330*480MM (15.7 IN)  |
| TRASH BOX                                 | 60L (16US GAL)  |
| MAX. CLEANABLE TRASH<br>SIZE AND WEIGHT   | 200*50*50MM (8*2*2IN),<br>250G (0.55LB)                   |
| SENSOR SYSTEM                             | 3D LIDAR, 2D LIDAR, 5*DEPTH CAMERA<br>AIR PRESSURE BUMPER |
| MAX. ENDURANCE                            | ≈4H ~ 7H  |

\*Due to ongoing product updates, specifications are subject to change without notice and will vary throughout the operation.

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