



SCRUBBER 50

Your Reliable Choice for Highly Dynamic Indoor Environments

APPLICABLE SCENARIOS

Scrubber 50 is ideal for cleaning highly dynamic indoor environments, including Shopping malls, SME supermarkets, Manufacturing plants, Logistics warehouses, etc.



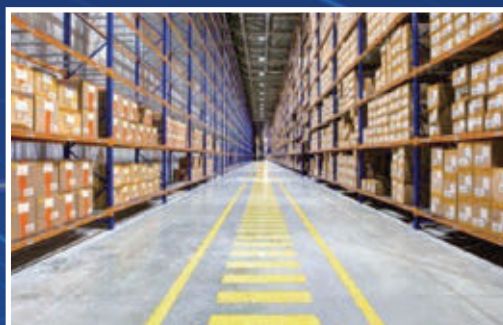
Shopping malls



SME supermarkets



Manufacturing plants



Logistics warehouses

FLOORING TYPES

The Scrubber 50 series are designed for different types of hard, water resistant flooring, including Natural Stone, PVC & Vinyl flooring, Ceramic tiles, Epoxy, Concrete, etc.



Natural Stone



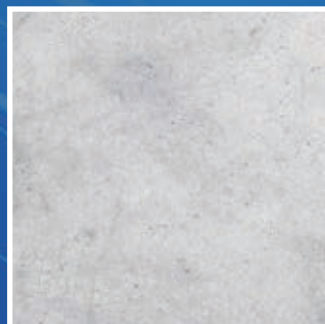
PVC & Vinyl Flooring



Ceramic tiles



Epoxy



Concrete

PRODUCT FEATURES

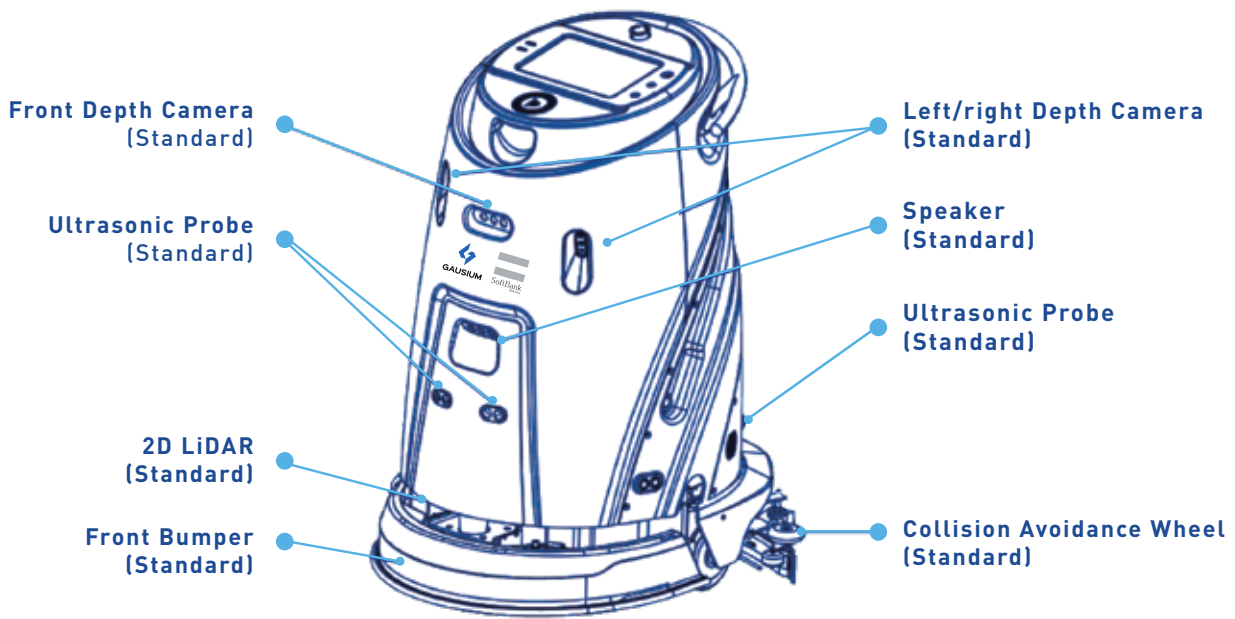


Figure 1: Scrubber 50 Sensors

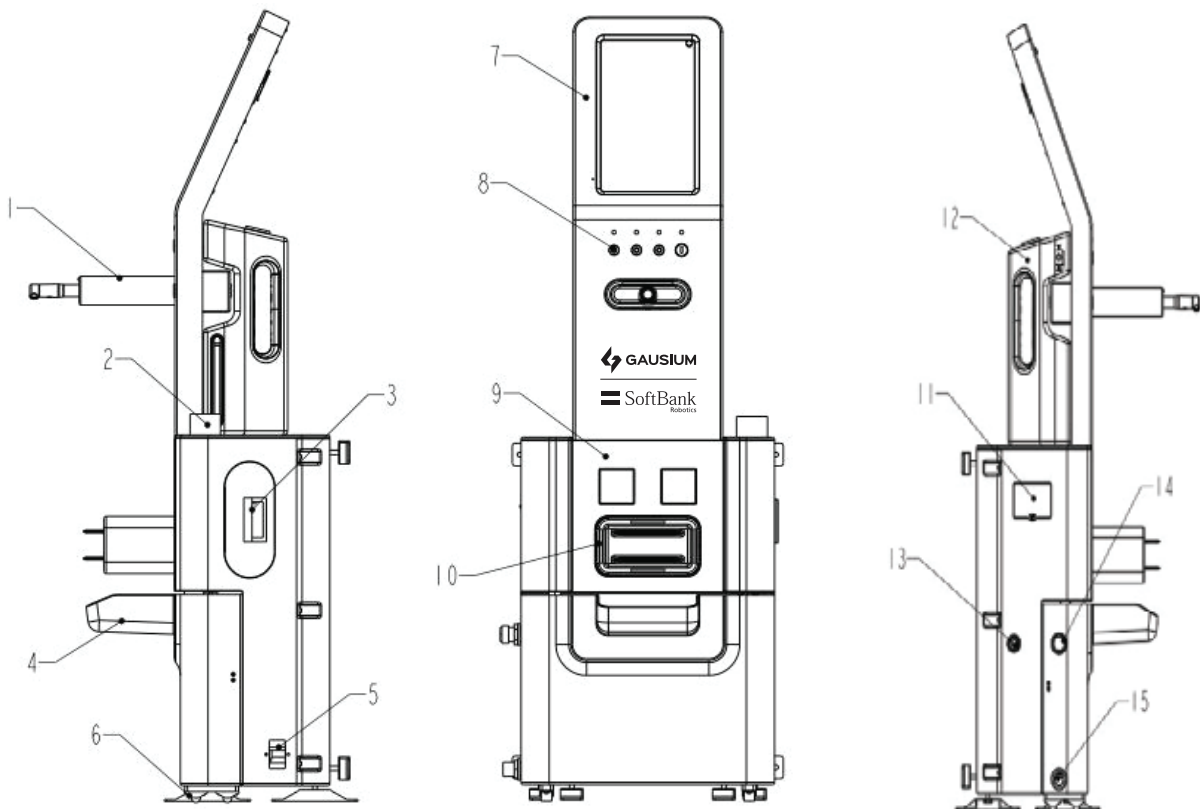


Figure 2: Scrubber 50 Working Station

1. Auto water filling hose
2. Emergency stop switch
3. Manual charging port
4. Recovery water collecting tank
5. External power port
6. Foot fixed base

7. Advertising demo screen
8. Work indicator
9. Pile connection QR code
10. Auto charging port

11. LOAR maintenance door
12. Cleaning liquid tank (optional)
13. Water inlet hose
14. Recovery water discharge port of submersible pump
15. Auto recovery water discharge port



Figure 3: Scrubber 50 Charging Dock

When the Scrubber 50's battery is low, they can automatically return to the charging dock to recharge.



Figure 4: Scrubber 50 Work Station



This is where the powerful Li-Ion batteries are charged, fresh water is replenished, dirty water is disposed and the recovered water tank is rinsed.

CORE STRENGTHS

SIMPLICITY

Minimal Human Intervention Operation (M.H.I.O)

Minimal Maintenance	Easy Deployment
<ul style="list-style-type: none">• Optional work station for automatic charging, water filling & draining, realizing 7/24 uninterrupted operation• Only 2 hours required per month for general maintenance	<ul style="list-style-type: none">• 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


- Switches between autonomous and manual mode with a simple command



MANEUVERABILITY

Access restricted area while cleaning



Agile and compact design
<ul style="list-style-type: none">• 90cm passage width + 100cm turning diameter - Able to clean narrow corridors






INTELLIGENCE

Boldly go where no other cleaning robot has gone before

Advanced AI navigation system empowered by semantic SLAM	Remote task scheduling, activation and maintenance
<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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, enabling the robot to navigate in the most dynamic situations	AIoT Integration
<ul style="list-style-type: none"> • Teach & Follow (Auto repeat) • Auto-cover (Auto fill-in) • Real-time Auto-cover (Returning to occupied spaces) • Sketch (Point to point) 	<ul style="list-style-type: none"> • Elevator calling • OTA system upgrade
	

Recovery
<ul style="list-style-type: none"> • Resumes previous unfinished task after interruption



PRODUCTIVITY

Exponentially improves cleaning efficiency

Advanced Cleaning Efficiency – Up to 1,656 sqm/h (*)	Near to wall cleaning
<ul style="list-style-type: none"> • 3 in 1 - Integrates scrubbing & drying, sweeping, dust mopping • No-hassle squeegee system - removes liquid without collision or scratch 	<ul style="list-style-type: none"> • 3cm edge-to-edge cleaning
	

SAFETY

Cutting-edge Obstacle Detection & Avoidance

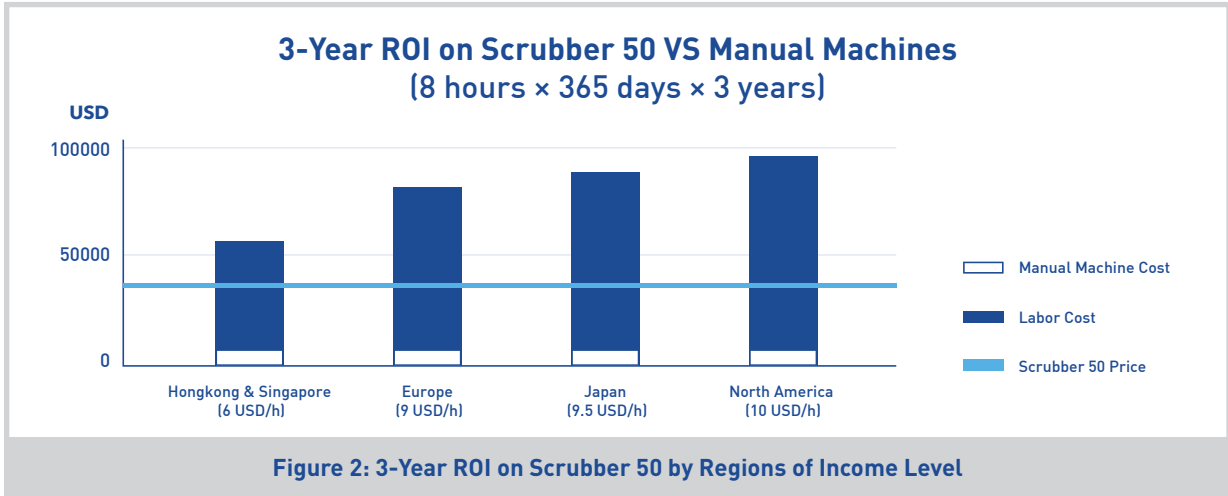
Multi-sensor fusion
<ul style="list-style-type: none"> • Reacts to the changes correspondingly and automatically while cleaning, detecting and avoiding static and dynamic obstacles from all directions and in real time • Equipped with E-stop button, anti-slip wheels, anti-collision touch bumpers, integrated signaling lights, safety audio message playback etc., providing all-round safety


(*Under ideal conditions)

KEY BENEFITS

COST-EFFICIENCY

Invest in Scrubber 50's quality and technology that significantly drive down cleaning cost



LOW TOTAL COST OF OWNERSHIP

- The large capacity, Lithium batteries, elevator integration and optional work station, 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



SUSTAINABILITY

Create long-term value by taking an eco-friendly approach

ENERGY SAVING

- Calculates the most efficient path to reduce energy consumptions



WATER SAVING

- Unique 4-stage water recycling filtration system
- Saves up to 70% fresh water



BETTER IMAGE

Enhance Facility Image by embracing a consistent, sustainability oriented clean

MARKETING VALUE MARKETING VALUE

- The visual appearance of the Scrubber 50 shows visitors your taking their health and safety seriously, demonstrating your company as a clean and trendsetting organization
- The adoption of Scrubber 50's water-saving and energy-efficient cleaning solutions manifests your company's commitment to CSR initiatives



SPECIFICATION

FEATURE	SCRUB, SWEEP, MOP
DIMENSION	L860*W700*H1030MM
UNLADEN WEIGHT <small>(DISC BRUSH/ROLLER BRUSH)</small>	150KG/140KG
CLEANING WIDTH	500MM
MAX. CLEANING PRODUCTIVITY	1656M ² /H
RATED VOLTAGE	24V
MAX. OUTPUT POWER	1200W
MAX. CLIMBING DEGREE	4.6°
TRAVEL SPEED	0-3.6KM/H
DISC BRUSH	2*230MM
ROLLER BRUSH (OPTIONAL)	ADJUSTABLE 2*Ø72*370MM
DUST MOP	COMPATIBLE
CLEAN/RECOVERED WATER TANK	24/18L
TRASH TRAY (FOR ROLLER BRUSH)	2*0.6L
SENSOR SYSTEM	LIDAR, 5°DEPTH CAMERA, ULTRASONIC SENSOR, AIR PRESSURE BUMPER AND CLIFF SENSOR
MAX. ENDURANCE	≈ 2H ~ 6H

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