



ALPHAROBOTICS SOLUTIONS
SMART TECH. HUMAN TOUCH

AlphaRobotics Scrubber 50

AI-Powered Robotic Floor Scrubber for Medium to Large Spaces

Certified to IEC 63327:2021 Standards — Award-Winning Excellence, Best-Selling Choice

SCRUB

SWEEP

DUST
MOP



Natural Stone

PVC

Epoxy

Artificial Stone

Ceramic

Concrete

Scrubbing, sweeping and dust mopping in one — with water recycling and up to 400% spot-cleaning efficiency.



Operational Overview & Applications

The AlphaRobotics Scrubber 50 is an AI-powered robotic floor scrubber for medium to large spaces, certified to IEC 63327:2021 standards. Its 3-in-1 solution integrates scrubbing, sweeping and dust mopping, with a choice of disc or roller main brush to suit specific cleaning requirements — and a built-in multi-stage filtration system that recycles and reuses water.



3-in-1

Scrubbing,
sweeping,
dust mopping

~80%

Freshwater
consumption reduction

2 h

Charging time

Ideal Environments

Natural Stone

PVC

Epoxy

Artificial Stone

Ceramic

Concrete

Core Operating Value

Two brush options

Choose between a disc brush or a roller brush to suit specific cleaning requirements.

Spot Cleaning — up to 400%

Proactively detects and cleans waste using an RGB camera and AI algorithms.

Sustainable operation

Water recycling cuts freshwater use by ~80%; up to 10 h Spot Cleaning runtime with ~75% less energy.



Key Technology Features

Versatile cleaning, AI-powered perception and sustainable operation.

3-in-1 Solution

Integrates scrubbing, sweeping and dust mopping in a single solution.

2 Main Brush Options

Choose between a disc brush or a roller brush to suit your specific cleaning requirements.

Spot Cleaning Mode

Proactively detects and cleans waste using an RGB camera and AI algorithms, bringing up to 400% efficiency improvement.

Smart Obstacle Avoidance

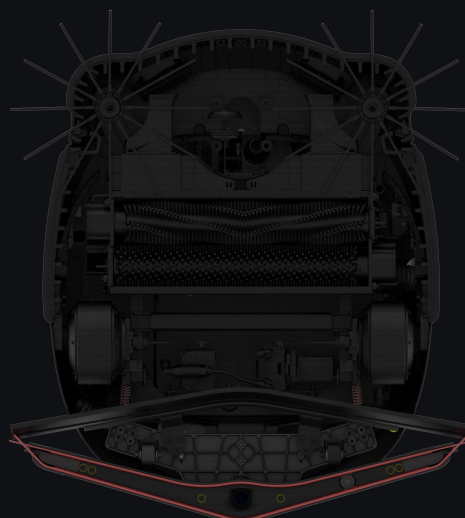
Recognizes people and obstacles, making advanced behavioral decisions based on their types and characteristics.

Water Recycling

Built-in multi-stage filtration recycles and reuses water, reducing freshwater consumption by approximately 80%.

Energy Efficient

Delivers up to 10 hours of runtime in Spot Cleaning mode, reducing energy consumption by approximately 75%.





Safety Systems & Maintenance

Certified safety with quick-release, service-friendly maintenance.

IEC 63327:2021 Certified

Certified to IEC 63327:2021 standards for automatic floor treatment machines — safety validated for commercial use.

Smart Obstacle Avoidance

Recognizes people and obstacles and makes advanced behavioral decisions based on their types and characteristics.

Quick-Release Components

The squeegee assembly and filter components feature a quick-release design for tool-free disassembly and reassembly within seconds.

Docking Stations

Optional workstation for self-docking power charging and water management.





Complete Specification Matrix

Manufacturer specifications preserved in dual units — imperial and metric.

PARAMETER	TECHNICAL VALUE
BRUSH CONFIGURATIONS (DISC BRUSH ROLLER BRUSH)	
Net Weight	Disc Brush: 346.1 lb 157 kg Roller Brush: 326.3 lb 148 kg
Brush Pressure	Disc Brush: 55 lb 25 kg Roller Brush: 39.7 lb 18 kg
Cleaning Width	Disc Brush: 18.1 in 460 mm Roller Brush: 16 in 406 mm; with side brushes: 30.7 in 780 mm
Edge Cleaning Capability	Disc Brush: 1.6 in 40 mm Roller Brush: 1.6 in 40 mm; with side brushes: 0 in 0 mm
Max. Scrubbing Efficiency (Theoretical)	Disc Brush: 21,388 ft ² /h 1,987 m ² /h Roller Brush: 18,880 ft ² /h 1,754 m ² /h
Trash Tray Capacity	2 × 0.16 gal 2 × 0.6 L
Max. Runtime	Disc Brush: Scrubbing 3 h; Dust Mopping 8 h Roller Brush: Scrubbing 3 h; Dust Mopping 6 h
GENERAL SPECIFICATIONS	
Dimension (L×W×H)	31.9 × 27 × 42.1 in 810 × 700 × 1,070 mm
Charging Time	2 h
Clean / Waste Water Tank	7.9 gal / 6.3 gal 30 L / 24 L
Practical Cleaning Efficiency	5,382–13,993 ft ² /h 500–1,300 m ² /h
Gradeability	4.6°
Min. Pass Width	31.5 in 800 mm
Min. U-turn Width	43.3 in 1,100 mm
Max. Cleaning Speed	2.7 mph 1.2 m/s
Sensor System	2D LiDAR, 3D Depth Camera, RGB Camera, Anti-Collision Sensor, etc.

[1] The specifications are derived from manufacturer lab test results; actual performance data may vary in specific applications.

[2] Alternative configurations compliant with IEC 63327 are available upon request. Please note that the corresponding specifications may vary depending on the chosen configuration.



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AlphaRobotics Scrubber 50

The Reliable, Hassle-free Robots You Can Trust



Leading the New Era of Cleaning Robotics

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Smart Tech. Human Touch.