



ALPHAROBOTICS SOLUTIONS
SMART TECH. HUMAN TOUCH

AlphaRobotics Phantas

Commercial Robot Floor Cleaner for Small to Midsize Spaces

All In One — One For All

VACUUM

SWEEP

SCRUB

DUST
MOP



Low Pile
Carpet

Natural
Stone

Ceramic

Hardwood

Concrete

80% boost in cleaning power with larger brushes and higher pressure — vacuuming, scrubbing, sweeping and dust mopping in one.



Operational Overview & Applications

The AlphaRobotics Phantas Extra is a commercial robot floor cleaner for small to midsize spaces — an all-in-one solution integrating vacuuming, scrubbing, sweeping and dust mopping for comprehensive floor care. It passes through aisles as narrow as 600 mm and cleans under desks as low as 650 mm, reaching tight corners and tricky crevices with extended side brushes.



3,367–7,535 ft²/h

Practical cleaning
efficiency (350–700
m²/h)

10 h

Max. runtime —
sweeping

23.6 in | 600 mm

Min. pass width

Ideal Environments

Low Pile
Carpet

Natural
Stone

Ceramic

Hardwood

Concrete

Core Operating Value

All-in-one floor care

Vacuuming, scrubbing, sweeping and dust mopping integrated in a single solution.

Spot Cleaning — up to 400%

Proactively detects and cleans waste using an RGB camera and AI algorithms; available via OTA upgrade.

Floor type recognition

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



Key Technology Features

AI-powered perception, agile maneuverability and effortless maintenance.

All-in-One Solution

Integrates vacuuming, scrubbing, sweeping and dust mopping in a single solution for comprehensive floor care.

Floor Type Recognition

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

Smart Obstacle Avoidance

Recognizes obstacle types and makes advanced behavior decisions according to their types and features.

Spot Cleaning Mode

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

Thorough Edge & Crevice Cleaning

Extended side brushes reach into tight corners and tricky crevices to remove dust and debris that usually get missed.

Smart Handle & Docking

Automatic mode shift (Auto/Manual) via handle-position detection with power assistance; optional workstation and mobile water tank.





Safety Systems & Maintenance

Advanced safety signaling with effortless, service-friendly maintenance.

Smart Obstacle Avoidance

Recognizes obstacle types and makes advanced behavior decisions for safe operation around people and objects.

Strobe Light & Warning Flag

A strobe light ensures safety in low-light conditions; an optional warning flag keeps the robot visible even behind cargo.

Smart Handle

Automatic mode shift via handle-position detection and effortless control with power assistance.

Docking Stations

Optional workstation for auto charging and water management, and an optional mobile water tank for on-demand water supply.





Complete Specification Matrix

Manufacturer specifications preserved in dual units — imperial and metric.

PARAMETER	TECHNICAL VALUE
Dimension (L×W×H)	21.3×17.3×24.3 in 540×440×617 mm
Net Weight	117 lb 53 kg
Vacuuming/Sweeping Width	16.2 in 410 mm
Scrubbing/Dust Mopping Width	13.0 in 330 mm
Max. Cleaning Efficiency (Theoretical)	Scrubbing / Dust Mopping: 10,223 ft ² /h 950 m ² /h Vacuuming / Sweeping: 12,701 ft ² /h 1,180 m ² /h
Practical Cleaning Efficiency	3,367–7,535 ft ² /h 350–700 m ² /h
Max. Runtime	Scrubbing 3 h; Vacuuming 3 h; Sweeping 10 h
Charging Time	2 h
Clean Water / Waste Water Tank	3.0 gal / 2.7 gal 11.5 L / 10.5 L
Trash Can Capacity	0.2 gal 0.7 L
Dust Bag Capacity	6 L (holds 3–7 days' dust)
Edge Cleaning Capability	0 in 0 mm
Gradeability	8°
Min. Pass Width	23.6 in 600 mm
Quiet Mode	Supported (≤60 dB)
Sensor System	LiDAR, 3D Depth Camera, RGB Camera, Anti-Drop, Anti-Collision

Note: The specifications are derived from manufacturer lab test results; actual performance data may vary in specific applications.



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AlphaRobotics Phantas

The Reliable, Hassle-free Robots You Can Trust



Leading the New Era of Cleaning Robotics

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