



ALPHAROBOTICS SOLUTIONS
SMART TECH. HUMAN TOUCH

AlphaRobotics SC80

Autonomous Floor Scrubber & Sweeper

Leading the New Era of Cleaning Robotics

31.5 in | 800 mm
Scrubbing width

43,056 ft²/h | 4,000 m²/h
Max cleaning efficiency



Transit Hubs

Exhibition Halls

Shopping Malls

Warehouse

First choice for medium and large indoor & outdoor areas — scrubbing, sweeping and optional spraying in one pass.



Operational Overview & Applications

The AlphaRobotics SC80 is an autonomous floor scrubber built for large and medium-sized indoor scenes. LiDAR, depth camera and ultrasonic radar power environmental perception, automatic path planning and obstacle recognition, while an optional spray tank completes a one-stop hard-floor cleaning scheme that saves manpower and cuts operating costs.



37.0 gal | 140 L
Solution tank

4–6 h
Runtime per charge

36V / 200Ah
LiFePO4 battery

Ideal Environments

Transit Hubs

Exhibition Halls

Shopping Malls

Warehouse

Core Operating Value

Big-area productivity

Up to 43,056 ft² / 4,000 m² per hour with a 45.7 in / 1,160 mm sweeping width and 40.3 in / 1,024 mm squeegee.

Indoor & outdoor ready

Handles epoxy, terrazzo, marble, ceramic, silicon carbide and cement floors; optional spray function on site.

Low-touch operation

The optional WSC80 workstation provides automatic docking, charging, water filling and draining.



Key Technology Features

360° fusion perception, vehicle-grade computing and cloud-based fleet management.

360° Fusion Positioning

Leading fusion positioning and perception technology provides 360° coverage with no blind spots for safe driving.

Multi-Mode Obstacle Avoidance

Flexible narrow-lane traffic, narrow-lane U-turns and intelligent path planning handle complex scenarios with ease.

Vehicle-Grade Computing

A fully self-developed vehicle-grade embedded computing platform guarantees hardware and algorithm performance.

3-in-1 Cleaning

Sweeping, scrubbing and optional spraying; the automatically adjustable roller brush adapts to various floors.

Cloud Platform & Reports

Cloud-based periodic cleaning reports, mobile service reminders and business statistics simplify management.

Multiple Task Modes

Combined tasks, scheduled tasks and remote tasks make daily operations easy and convenient.





Safety Systems & Maintenance

Dual protection of hardware and software — vehicles are safe and people are safer.

Comprehensive Sensor Suite

Multi-beam and single-beam LiDAR, depth camera, ultrasonic radar, collision and anti-fall sensors, IMU and wheel speedometer.

Multi-Layer Safety

Electromagnetic brake, safe parking, anti-collision, anti-fall and anti-skidding protections make operation safer.

Always-On Service

One-to-one manager, 7×24 service, 30-minute quick response, remote fault handling and silent OTA upgrades.

WSC80 Workstation

Optional automatic docking, charging, water filling and draining reduce manual intervention and boost efficiency.





Complete Specification Matrix

Manufacturer specifications preserved in dual units — imperial and metric.

PARAMETER	TECHNICAL VALUE
CLEANING	
Scrubbing Width	31.5 in 800 mm
Sweeping Width	45.7 in 1,160 mm
Squeegee Width	40.3 in 1,024 mm
Max Cleaning Efficiency	43,056 ft ² /h 4,000 m ² /h
Solution Tank Capacity	37.0 gal 140 L
Recovery Tank Capacity	44.9 gal 170 L
Trash Can Capacity	0.4 gal 1.5 L
POWER & RUNTIME	
Battery	36V / 200Ah LiFePO4
Runtime per Charge	4–6 hours
DIMENSIONS & WEIGHT	
Dimensions (L×W×H)	52.8 × 40.3 × 53.1 in 1,340 × 1,024 × 1,350 mm
Net Weight	882 lbs 400 kg
Max Slope	≤ 10°
Operating Noise	≤ 70 dB(A)
SENSORS	
Sensor Configuration	Multi-beam LiDAR, single-beam LiDAR, depth camera, ultrasonic radar, wheel speedometer, IMU, collision sensor, anti-fall sensor

Note: Specification values reproduced from the manufacturer source brochure; actual performance may vary in specific applications.



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AlphaRobotics SC80

The Reliable, Hassle-free Robots You Can Trust



Leading the New Era of Cleaning Robotics

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Smart Tech. Human Touch.