



ALPHAROBOTICS SOLUTIONS
SMART TECH. HUMAN TOUCH

AlphaRobotics L3

Autonomous Scrubber Dryer

Leading the New Era of Cleaning Robotics

SCRUB



Grocery
Stores

Hospitals

Schools

Office
Buildings

Compact, highly maneuverable cleaning power for tight, high-traffic spaces
— only 700 mm / 27.6 in pass-through.



Operational Overview & Applications

The AlphaRobotics L3 is a compact, versatile autonomous scrubber dryer built for crowded, high-traffic environments. With a pass-through width of just 700 mm / 27.6 in, dual disk brushes and 18 kg / 39.7 lbs of brush pressure, it cleans edges and corners efficiently where larger machines cannot go.



21,674ft²/hr
Max. theoretical
productivity

39.7lbs/18kg
Brush pressure

4 hours
Max. runtime (ECO
Mode)

Ideal Environments

Grocery
Stores

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Core Operating Value

Compact & maneuverable

Only 700 mm / 27.6 in pass-through width — highly maneuverable in tight and crowded spaces.

Enhanced productivity

A 25 L / 6.6 gal solution tank and 400 mm / 15.7 in cleaning width deliver greater coverage with fewer passes.

Intelligent detection

Detects and avoids challenging small objects such as temporary carpets and cables on the floor.



Key Technology Features

AI-driven perception, powerful scrubbing and extended runtime options.

NVIDIA AI Chip — 100 TOPS

Advanced AI processing power ensures fast, stable and intelligent obstacle avoidance and path planning.

96-Beam 3D LiDAR

High-resolution localization and environmental sensing for precise autonomous navigation.

Dual Disk Brushes

18 kg / 39.7 lbs of brush pressure delivers superior cleaning results with fewer passes.

Intelligent Small-Object Detection

Detects temporary carpets and cables on the floor, preventing entanglement and protecting the machine.

Mobile Water Tank & Workstation

Compatible with a mobile water tank and workstation for extended runtime without easy access to plumbing.

Quick Maintenance Design

Easy access to the recovery tank, magnetic brushes and a quick-release squeegee minimize downtime.





Safety Systems & Maintenance

Enhanced safety with an intelligent detection system; designed for quick, hassle-free maintenance.

Intelligent Detection System

The advanced perception system detects and avoids not only standard obstacles but also small objects like temporary carpets and cables.

96-Beam 3D LiDAR + 100 TOPS AI

Combined with NVIDIA AI processing, the L3 ensures fast, stable and intelligent obstacle avoidance and path planning.

Quick & Hassle-Free Maintenance

Easy access to the recovery tank, magnetic brushes and a quick-release squeegee facilitate quick maintenance and minimize downtime.

Extended Runtime Options

Mobile water tank and workstation compatibility supports longer operation in facilities without easy access to water plumbing.





Complete Specification Matrix

Manufacturer specifications preserved in dual units — imperial and metric.

PARAMETER	TECHNICAL VALUE
DIMENSIONS	
Length	30.1 in 765 mm
Width (w/o squeegee)	22.5 in 572 mm
Height	39.37 in 1,000 mm
Scrubbing Width	15.7 in 400 mm
CLEANING	
Max. Theoretical Productivity	21,674 ft ² /hr 2,016 m ² /hr
Solution Tank Capacity	6.61 gal 25 L
Recovery Tank Capacity	6.61 gal 25 L
Brush Pressure	39.7 lbs 18 kg
MOVEMENT	
Max. Speed	3.13 mph 1.4 m/s
Min. Passable Width	27.6 in 700 mm
Gradeability	8%
POWER	
Battery Type	Lithium Iron Phosphate
Battery Capacity	60 Ah
Rated Voltage	25.6 VDC
Max. Runtime	4 hrs (ECO mode)
Charging Time	1.5 / 2 hrs
KEY COMPONENTS	
AI Computing Chip	Nvidia AI chip (100 TOPS)
Localization Sensor	96-beam 3D LiDAR



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AlphaRobotics L3

The Reliable, Hassle-free Robots You Can Trust



Leading the New Era of Cleaning Robotics

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Smart Tech. Human Touch.