

# PUDU BG1 Series

AI-Native Large Scrubber-Dryer Robot



One-Pass  
Sweep & Scrub



Extendable  
Edge Cleaning



Instant,  
User-friendly Maintenance



AI Magic Cleaning



3D Perception  
Enhancement



24/7 Continuous  
Operation



## Extendable Edge Cleaning

The scrubbing brush can physically extend to reach walls and shelving edges, thoroughly removing dust and dirt along edges, improving coverage, and minimizing manual touch-ups.



## 3D Perception Enhancement

The BG1 Series maps accurately and dodges obstacles in real time. It ensures reliable, efficient cleaning - even in dark, high-ceiling, or high-interference environments.

3D VSLAM + LiDAR + Multi-sensor fusion



## Instant, User-friendly Maintenance

The PUDU BG1 Series features automatic disc-brush attachment, eliminating manual positioning and setup. Coupled with a user-friendly snap-on design for all critical consumables, routine maintenance can be completed in under 1 minute.



## 24/7 Continuous Operation

The all-in-one station automates refilling, drainage and charging, ensuring 24/7 mission-readiness.



## One-Pass Sweep & Scrub

Combine sweeping and deep scrubbing into one efficient workflow. Featuring smart dosing, superior down pressure, and an ultra-wide path clearance to cover more ground in less time.

550 mm Cleaning Width

Max. 6000 m<sup>2</sup>/h Cleaning Efficiency

Max. 7.5H Long Battery Life

75 L + 60 L Water Tank

Min. 850 mm Path Clearance



## AI Magic Cleaning

### AI-Driven Adaptive Mechanism

Upon detecting wet spills, it instantly retracts the sweeping modules to prevent secondary spreading. For stubborn stains, it automatically boosts brush pressure for a spotless, single-pass clean.

### AI-Driven Auto-dosing System

7 L tanks with milliliter-level accuracy. It automatically scales detergent strength to match floor conditions, maximizing cleaning impact while minimizing waste.



## Human-Robot Interaction

**Ride-on Mode:** Deploy the platform for instant manual control. It accelerates site mapping and long-distance transitions, ensuring rapid response to unforeseen situations beyond autonomous operation.



### PUDU BG1

### PUDU BG1 Pro

Battery Capacity	90 Ah (48V platform, equivalent to 180 Ah at 24V)	90 Ah (48V platform, equivalent to 180 Ah at 24V)
Charging Time	Automatic Voltage Detection: High voltage (AC≥180V): approx. 3 h Low voltage (AC≤180V): approx. 4.5 h	Automatic Voltage Detection: High voltage (AC≥180V): approx. 3 h Low voltage (AC≤180V): approx. 4.5 h
Run-time	Sweeping & Scrubbing: Max. 7.5 h	Sweeping & Scrubbing: Max. 7.5 h
Weight	approx. 344 kg	approx. 344 kg
Dimensions	1195x760 x 1303 mm (with squeegee) 1120x660 x 1303 mm (without squeegee)	1195x760 x 1303 mm (with squeegee) 1120x660 x 1303 mm (without squeegee)
Navigation Methods	Lidar + 3D VSLAM Fusion Positioning	3D Lidar + 3D VSLAM Fusion Positioning
Cruise Speed	0.2-1.0m/s	0.2 ~ 1.2 m/s
Cleaning Width	550 mm / 708 mm (with side brushes)	550 mm / 708 mm (with side brushes)
Cleaning Performance	Covered Cleaning Mode: Max. 2000 m <sup>2</sup> /h Spot Cleaning Mode: Max. 6000m <sup>2</sup> /h	Covered Cleaning Mode: Max. 2000 m <sup>2</sup> /h Spot Cleaning Mode: Max. 6000m <sup>2</sup> /h
Tank Group Capacity	Trashbin: 5L, Clean Water Tank: 75L, Waste Water Tank: 60L Detergent Tank: Dual Detergent Tanks, total approx. 7 L	Trashbin: 5L, Clean Water Tank: 75L, Waste Water Tank: 60L Detergent Tank: Dual Detergent Tanks, total approx. 7 L