



Star60

Commercial Multi-Surface Floor Care & Cleaning Robot

DRY-POLISHING · SWEEPING · VACUUMING



About PolarX

PolarX Robotics is a global technology company focused on the design, development and manufacture of commercial service robots. We have pioneered a practical waterless cleaning approach that replaces traditional wet-cleaning methods. Through mechanical polishing and high-frequency grooming technology, our systems deliver consistent cleaning across hard floors and carpets while removing slip risks and reducing the maintenance burden associated with conventional wet-cleaning robots. The result is safer floors and genuine labour efficiency in real-world environments.

Traditional cleaning systems are restricted by their reliance on water, notably in environments where wet floors are unsafe or impractical, and whilst operating overnight. The Star60 challenges the assumption that water is required to achieve effective floor cleaning. By combining high performance with minimal human intervention, it sets a new benchmark for efficiency, stability, and safety. PolarX is not simply delivering smart equipment, but supporting customers as they transition to a more efficient, reliable and safer approach to commercial cleaning.

Global Benchmark Scenarios



CORE TECHNOLOGY ADVANTAGES **KEY BENEFITS**

01 Waterless Polishing

The Star60 features a mechanical, waterless polishing system specifically for commercial use. High-speed scrubbing modules and controlled pressure provide effective cleaning without water, extending the intervals between marble crystallisation treatments. By eliminating moisture, water marks, and slip risks, this approach significantly reduces routine maintenance requirements.

02 Integrated 3-in-1 Cleaning

Dry polishing, sweeping and vacuuming are integrated into a single continuous process. Dust and debris are collected while the floor surface is cleaned and polished in one pass, reducing repeat work and simplifying operation compared to traditional wet-cleaning or multi-machine workflows.

03 Hard Floor & Carpet Capability

A dedicated roller brush grooming module allows the Star60 to operate effectively across both hard floors and carpeted areas. Fine dust particles are captured and odours reduced, supporting regular carpet care while maintaining surface condition without aggressive extraction.

04 Labour & Cost Efficiency

With a cleaning efficiency of up to 1,800 m² per hour in open commercial environments, a single Star60 can replace multiple manual cleaning passes. The waterless design removes the need for refilling, draining and water system maintenance, helping reduce labour input, consumables and operating costs.

05 Green & ESG Commitment

Waterless cleaning system removes the need for water and chemicals during daily operation. By eliminating water handling and wastewater disposal, it reduces resource consumption and environmental impact across large commercial deployments, supporting sustainability objectives without compromising performance.

06 Quiet Operation

Operating at noise levels below 65 dB, the Star60 is suitable for use during business hours or overnight in occupied environments. Quiet operation allows cleaning to take place without disrupting customers, staff or sensitive settings such as healthcare and education facilities.

Technical Specifications **Specs**

Dimensions	758 x 580 x 690 mm	Max Efficiency	1,800 m ² /h
Cleaning Width	620 mm (inc. side brushes)	Dust Bin/Bag Capacity	7 L / 3.3 L
Battery / Runtime	24V 52Ah / 4-6 Hours	Core Sensors	2D LiDAR+4xDepth Cameras

⊕ OPTIONAL: ADVERTISING SCREEN, AROMA/DISINFECTION, CARPET UV DISINFECTION MODULE, RETAIL INSIGHT VISION KIT



Safe



Simple



Stable



Sustainable