

Px PolarX Robotics

PolarX Star60

Commercial Floor Care & Cleaning Robot

All-Floor Care: Dry Polishing · Sweeping · Vacuuming

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Pro Water-Free Cleaning ★

Innovative water-free polishing technology eliminates water stains, footprints, and slip hazards. Floors become shinier with every pass, delivering genuine labour savings.

About PolarX Robotics

PolarX Robotics is a global high-tech enterprise dedicated to the R&D and manufacturing of commercial service robots. We have abandoned traditional cleaning concepts and disruptively pioneered the "Water-Free Cleaning" model. Through physical polishing and high-frequency grooming technologies, we ensure both the cleanliness and comfort of hard floors and carpets, whilst effectively eliminating the various safety hazards associated with water-washing robots.

Faced with the global dilemma where users of water-washing robots "dare not use water by day, and cannot use water by night"—leading most to become mere dust mops—PolarX has disruptively launched the Star60 series of dry floor care products. With efficiency, intelligence, and environmental protection at its core, this series redefines cleaning standards in the commercial sector.

The Star60 not only achieves all-weather unmanned operation but also significantly boosts cleaning efficiency through advanced path-planning algorithms. Its modular design facilitates maintenance and upgrades, meeting the personalised needs of various scenarios. Since its launch, the market response has been enthusiastic, with a global footprint covering airports, high-speed railway stations, metro stations, sports stadiums, high-end shopping centres, Grade A office buildings, exhibition halls, convention centres, as well as medical and elderly care institutions. Relying on unique core technology and industrial-grade manufacturing standards, the Star60 subverts the traditional perception that "only water can clean floors" with superior cleaning efficacy and minimal manual intervention. It not only redefines floor cleaning standards but also stands as an industry benchmark, opening a new era of "Efficient, Stable, Safe" floor care for users.

PolarX Robotics—Not just a provider of intelligent devices, but your trusted partner in commercial cleaning.



Global Innovation

Serving 10+ Countries Worldwide

Core Technological Advantages

Redefining commercial cleaning standards—more than just clean



Zero Water Polishing Technology

The Star60 employs an innovative dry polishing system. Through high-speed scrubbing modules and pressure management mechanisms, it extends the frequency required for marble crystallisation mirroring, achieving deep stain removal and polishing. Requiring no water filling or drainage, it completely eliminates water stains, footprints, and slip hazards in high-traffic commercial scenarios.



3-in-1 Functionality

A single machine integrates "Dry Polishing, Sweeping, and Vacuuming". It simultaneously completes dust collection, debris sweeping, and floor polishing. Truly achieving comprehensive cleaning in a single pass, its efficiency and cleanliness far exceed other common water-based cleaning robots on the market.



All-Terrain Coverage

Thanks to its unique roller brush grooming module design, the Star60 excels not only on hard surfaces like stone, tiles, and wooden flooring but also effectively vacuums and cares for carpets. It extends the frequency required for carpet extraction cleaning, prolongs carpet life, reduces odours, effectively adsorbs dust particles, and maintains carpet texture.



Cost Reduction & Efficiency

With a cleaning efficiency of up to 1,786 m²/h*, the workload of one machine is equivalent to 3-4 cleaning staff. Minimal maintenance requirements (no water changes, few consumables) significantly shorten the return on investment cycle.



Green Environmental Protection & ESG

The unique waterless cleaning system completely eliminates the need for water and chemicals, significantly reducing energy consumption. It provides a zero-wastewater, zero-pollution solution, fully meeting and exceeding corporate ESG (Environmental, Social, and Governance) sustainability standards.



Ultra-Quiet Operation

The Star60 robot operates at a noise level below 65 decibels, far lower than daily conversation volume. This ensures no disturbance to customers, office staff, or medical personnel in commercial environments during working hours or night-time cleaning, achieving true quiet efficiency.



Technical Specifications

Basic Parameters

Machine Dimensions (L x W x H)	758 x 580 x 690 mm
Machine Weight	90 kg
Charging Dock Dimensions / Weight	420 x 260 x 464 mm / 16 kg

Cleaning Performance

Cleaning Width	620 mm (including side brush)
Main Brush Width / Type	430 mm / Double Roller Design
Side Brush Diameter	200 mm
Theoretical Max Efficiency	1,786 m²/h

Endurance & Capacity

Battery Specifications	24V 52Ah Lithium Iron Phosphate (LFP)
Runtime	4 - 6 Hours
Capacity (Trash Bin / Dust Box / Dust Bag)	7 L / 9.6 L / 3.3 L

Intelligent System

Core Computing Platform	i5 Processor (8GB RAM + 64GB ROM)
Sensor Configuration	1x 2D Lidar, 4x Depth Cameras, 2x RGB Cameras
Max Operating Speed	4.3 km/h
Operating Noise	< 65 dB (Silent Mode)

Optional Configuration

Extension Modules	Ad Screen, Aroma/Disinfection, Warning Light, Retail Visual Insight Kit
Carpet Care	Carpet UV Disinfection Module

* Data measured in standard laboratory environment; actual usage may vary depending on floor conditions.

Contact Us

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(Place stamp or business card here)

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