

Cleaning Robots Market ? Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Personal Cleaning Robot and Professional Cleaning Robot), By Product (Floor-Cleaning Robot, Pool-Cleaning Robot, Lawn-Cleaning Robot, Window-Cleaning Robot and Others), By Application (Residential, Commercial, Industrial, Healthcare and Others), By Region & Competition, 2021-2031F

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Abstracts

The Global Cleaning Robots Market is projected to expand from USD 10.43 Billion in 2025 to USD 32.31 Billion by 2031, reflecting a compound annual growth rate of 20.74%. These autonomous electromechanical devices are designed to execute sanitation and maintenance duties, such as vacuuming, floor scrubbing, and lawn mowing, with very little human involvement. The market's growth is primarily fueled by severe labor shortages within the facility management industry and an increased global focus on rigorous hygiene standards that require dependable automated solutions. These core operational necessities drive a persistent demand that differs significantly from fleeting consumer technology fads or optional smart home features.

According to data from the International Federation of Robotics, the professional cleaning robot sector saw a 34% increase in growth in 2024, with sales exceeding 25,000 units. Despite this strong statistical performance, a major obstacle that could hinder broader market reach is the substantial initial capital investment needed for industrial-grade systems, which restricts adoption among small and medium-sized enterprises operating with limited budgets.

Market Driver

The increasing integration of autonomous cleaning technologies within commercial sectors serves as a major catalyst for market growth, as enterprises deploy robotic fleets to improve operational efficiency and uphold consistent hygiene levels. Large facility management firms are transitioning from pilot phases to full-scale implementations, motivated by the need to streamline workflows and reduce reliance on manual labor for repetitive tasks. This trend toward widespread adoption is exemplified by rapid fleet expansions; for instance, SoftBank Robotics America announced in June 2025 via the 'Heterogenous Integration Platform' press release that Flagship Facility Services installed over 100 autonomous robots across nearly 15 client locations in just six months, demonstrating that commercial entities now consider these systems vital for scalable facility maintenance.

Concurrently, continuous improvements in artificial intelligence and navigation systems are lowering technical entry barriers and enhancing robot capabilities. Manufacturers are allocating significant resources to research and development to engineer sophisticated algorithms capable of accurate mapping, dynamic obstacle avoidance, and smooth operation in complex environments. As reported by Yicai Global in April 2025 regarding the '2024 Annual Report', Roborock's R&D investment hit 971 million yuan, highlighting the industry's strong focus on technological differentiation. This dedication to innovation is bolstering financial results across the sector, illustrated by Ecovacs generating RMB 16.54 billion in revenue during 2024 according to KrAsia in 2025, which underscores the robust demand for advanced intelligent cleaning solutions.

Market Challenge

The considerable upfront capital expenditure required for industrial-grade cleaning robots serves as a primary constraint on market penetration, effectively limiting adoption to well-funded large enterprises. Although these autonomous systems offer long-term operational efficiencies, the significant initial cost creates a prohibitive barrier for small and medium-sized businesses that operate with tighter liquidity. For many facility managers, the immediate price of acquiring automated units exceeds their available capital budgets, compelling them to retain traditional manual labor despite prevailing workforce shortages. This financial threshold delays the return on investment realization, making the technology difficult to justify for organizations that must prioritize short-term cash flow over projected future savings.

As a result, the market experiences a sharp contrast in volume when compared to lower-

cost segments. This price-driven adoption gap is evident in industry data comparing the scale of affordable versus expensive automation. According to the International Federation of Robotics, sales of consumer service robots approached 20 million units in 2024. This massive scale of deployment in the budget-friendly consumer sector, compared to the restricted volume in the professional sector, emphasizes how high unit costs directly suppress the broader scalability of the industrial market.

Market Trends

The widespread adoption of fully autonomous all-in-one docking stations is fundamentally altering the consumer value proposition by minimizing the need for human intervention after the cleaning process. Modern units are increasingly outfitted with multifunctional base stations that automatically empty dustbins, wash mop pads with hot water, and refill on-board water tanks, thereby addressing the convenience gap associated with earlier semi-autonomous models. This consumer demand for comprehensive hands-free maintenance is generating substantial financial gains for manufacturers focusing on high-end integrated systems; according to Yicai Global in April 2025, referencing the 'Roborock 2024 Financial Report', the company saw a 34.17% year-on-year increase in revenue from smart sweepers and accessories to 10.85 billion yuan, validating the market's rapid shift toward these sophisticated self-servicing platforms.

At the same time, the industry is witnessing a decisive move toward modular, repairable, and eco-friendly designs as manufacturers address escalating regulatory pressures and sustainability goals. Companies are abandoning planned obsolescence in favor of circular economy strategies, such as material recycling and device refurbishment, to reduce electronic waste and decrease the production carbon footprint. This strategic pivot is exemplified by the implementation of large-scale product recovery schemes; according to the '2024 Sustainability Report' released by Ecovacs in August 2025, the manufacturer's trade-in initiative successfully collected 29,000 used units in a single year, highlighting the growing industrial commitment to lifecycle management and resource conservation.

Key Market Players

iRobot Corporation

Ecovacs Robotics Co. Ltd.

Roborock Technology Co. Ltd.

Samsung Electronics Co. Ltd.

LG Electronics Inc.

Dyson Ltd.

SharkNinja Operating LLC

Cecotec Innovaciones SL

Panasonic Corporation

Nilfisk A/S

Report Scope

In this report, the Global Cleaning Robots Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Cleaning Robots Market, By Type

Personal Cleaning Robot and Professional Cleaning Robot

Cleaning Robots Market, By Product

Floor-Cleaning Robot

Pool-Cleaning Robot

Lawn-Cleaning Robot

Window-Cleaning Robot and Others

Cleaning Robots Market, By Application

Residential

Commercial

Industrial

Healthcare and Others

Cleaning Robots Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Cleaning Robots Market.

Available Customizations:

Global Cleaning Robots Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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