

Global Mobile Cleaning Robot for PV Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Mobile Cleaning Robot for PV market size is expected to reach \$ 914 million by 2032, rising at a market growth of 12.0% CAGR during the forecast period (2026-2032).

Mobile Cleaning Robot for PV is an autonomous cleaning robot designed for photovoltaic module operation and maintenance, using mobile drive, brush or dry-cleaning mechanisms, sensing control, and battery power to remove dust, sand, and surface deposits from solar panels. Compared with manual cleaning or fixed cleaning systems, its advantages lie in lower labor intensity, better cleaning consistency, flexible deployment, reduced water use, safer operation, and stronger suitability for large ground-mounted photovoltaic plants and distributed rooftop systems. In 2025, production was approximately 80,000 units and the average price was USD 5,000 per unit. The industry's capacity utilization rate in 2025 was about 70% and the average gross margin was around 30%. Upstream, the key inputs include brushless motors, lithium batteries, sensors, and controllers, with representative suppliers such as Nidec, CATL, and Bosch providing drive motors, battery systems, sensing components, and control modules. The midstream segment focuses on robot structural design, walking and climbing mechanism development, cleaning module integration, battery endurance optimization, obstacle detection, route planning, dust and sand adaptability, waterproof and weather-resistant design, remote monitoring, safety testing, and automated assembly, which together determine cleaning efficiency, operating stability, panel compatibility, service life, and cost competitiveness. Downstream, Mobile Cleaning Robot for PV is mainly used in ground-mounted photovoltaic power stations and rooftop photovoltaic systems, with representative photovoltaic power generation companies including China Three Gorges Renewables, Enel Green Power, and NextEra Energy.

The solar panel automatic cleaning robot market is growing on the account of increasing technological advancement in renewable energy and robotics industries. These panels are important component of solar power generation systems. Their efficiency is directly linked to their cleanliness, so it is important to clean the dust, bird droppings, and other debris that get accumulated on solar panels over time. The dirt on solar panel can reduce their efficiency and overall energy output. The manual cleaning of solar panels is time-consuming and can pose safety risks for workers. This factor is creating high demand for solar panel automatic cleaning robot, therefore fuelling market growth.

This report studies the global Mobile Cleaning Robot for PV production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Mobile Cleaning Robot for PV and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Mobile Cleaning Robot for PV that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Mobile Cleaning Robot for PV total production and demand, 2021-2032, (Units)

Global Mobile Cleaning Robot for PV total production value, 2021-2032, (USD Million)

Global Mobile Cleaning Robot for PV production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Mobile Cleaning Robot for PV consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Mobile Cleaning Robot for PV domestic production, consumption, key domestic manufacturers and share

Global Mobile Cleaning Robot for PV production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Mobile Cleaning Robot for PV production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Mobile Cleaning Robot for PV production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Mobile Cleaning Robot for PV market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Ecoppia (Israel), Sunpure Technology

(China), Airtouch Solar (Israel), SolarCleanso (Luxembourg), TG hyLIFT GmbH (Germany), SERBOT AG (Switzerland), Miraikikai (Japan), BladeRanger (Israel), Aegeus Technologies (India), SolarACM Systems Corporation (USA), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Mobile Cleaning Robot for PV market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Mobile Cleaning Robot for PV Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Mobile Cleaning Robot for PV Market, Segmentation by Type:

Rail-Guided Solar Cleaning Robot

Self-Propelled Solar Cleaning Robot

Others

Global Mobile Cleaning Robot for PV Market, Segmentation by Cleaning Method:

Dry Cleaning Solar Panel Robot

Wet Cleaning Solar Panel Robot

Global Mobile Cleaning Robot for PV Market, Segmentation by Cleaning Capacity:

Capacity

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