

# **Sweeper Truck Market ? Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Compact Sweeper v/s Truck-mounted Sweeper), By Sweeping Type (Mechanical Broom Sweeper, Regenerative-Air Sweeper, Vacuum Sweeper), By Application (Urban Road, Airport, Highways, Others), By Region & Competition, 2021-2031F**

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## **Abstracts**

The Global Sweeper Truck Market is projected to expand from USD 3.92 Billion in 2025 to USD 5.32 Billion by 2031, registering a CAGR of 5.22%. These specialized vocational vehicles, utilizing vacuum, regenerative air, or mechanical broom systems, are essential for removing debris, sediment, and particulates from paved surfaces such as streets, runways, and industrial sites. The market is primarily propelled by the rapid expansion of urban infrastructure necessitating consistent maintenance and the enforcement of strict environmental regulations designed to curb airborne dust and runoff pollution, ensuring sustained demand for fleet renewal regardless of temporary trends.

Despite these growth prospects, the market encounters significant hurdles due to the high capital acquisition costs and complex maintenance requirements associated with modern, emission-compliant chassis. Municipalities with restricted budgets frequently delay upgrading to newer, more efficient models, resulting in deferred procurement cycles. This cautious environment is highlighted by data from NTEA ? The Association for the Work Truck Industry, which reported that commercial truck sales in the U.S. and Mexico declined by 5.4% during the first two months of 2024 compared to the previous year, reflecting a conservative approach within the vocational vehicle sector.

## Market Driver

The rising adoption of electric and hybrid models is fundamentally reshaping the Global Sweeper Truck Market as municipalities prioritize carbon neutrality and noise reduction in urban centers. This transition is accelerating the replacement of traditional diesel-powered sweepers with zero-emission alternatives built on advanced battery-electric chassis. According to the European Automobile Manufacturers' Association's January 2024 report on new commercial vehicle registrations, electric truck registrations in the EU surged by 234.1% in 2023 to reach 5,279 units, signaling a robust shift in platform availability for vocational applications. As regulatory pressures increase, manufacturers are integrating high-voltage systems to power both drivetrains and auxiliary sweeping mechanisms, ensuring compliance with low-emission zones while lowering long-term operational costs.

Concurrently, the expansion of global road infrastructure serves as a primary catalyst for sustained market growth, linking paved surface area directly to fleet capacity requirements. Governments are investing heavily in highway construction and rehabilitation, creating an operational necessity for heavy-duty debris removal vehicles to maintain safety and pavement longevity. The American Road & Transportation Builders Association projected in December 2023 that U.S. public highway and street construction activity would grow by 16% to \$126.6 billion in 2024. This infrastructure boom drives demand for robust vocational vehicles, a trend supported by the China Association of Automobile Manufacturers, which reported a 10.1% year-on-year increase in commercial vehicle sales during the first quarter of 2024.

## Market Challenge

High capital acquisition costs and complex maintenance requirements constitute a formidable obstacle hampering the growth of the Global Sweeper Truck Market. These elevated expenses compel municipalities and private contractors to delay necessary fleet upgrades, resulting in prolonged cycles of deferred procurement. As modern sweepers incorporate advanced emission-compliant chassis, the associated technical intricacies drive up both the initial purchase price and long-term service outlays. This financial strain forces operators to prioritize essential repairs over acquiring new assets, thereby contracting the overall market demand.

According to the American Transportation Research Institute, in 2024, the marginal operational cost for commercial trucks, excluding fuel, increased by 3.6% to reach a record high of \$1.779 per mile. This escalation in operating expenses further erodes the

capital reserves available for new equipment acquisition. Consequently, the market struggles to expand as potential buyers are priced out of upgrading to newer, more efficient sweeper models, leaving manufacturers with reduced sales opportunities in cost-sensitive sectors.

## **Market Trends**

The integration of autonomous and robotic sweeping technologies is significantly altering the market landscape by addressing chronic labor shortages and enabling continuous operations in complex urban environments. Manufacturers are increasingly deploying Level 4 autonomous units equipped with LiDAR and computer vision to navigate streets and industrial sites without human intervention, thereby improving safety protocols during off-peak cleaning hours. This shift toward driverless solutions is gaining commercial traction; for instance, Self Drive News reported in April 2024 that WeRide secured orders worth nearly \$10 million for its autonomous sanitation vehicle immediately upon its debut, signaling a robust appetite for automated vocational equipment.

Simultaneously, the adoption of IoT and telematics for smart fleet management has become a critical operational requirement for municipalities seeking to maximize asset uptime and reduce liability through granular data analysis. Modern sweeper trucks are now routinely outfitted with advanced connectivity suites that monitor broom engagement, fluid levels, and geospatial positioning to facilitate predictive maintenance and validate service completion. The implementation of these digital ecosystems directly correlates with enhanced safety and reduced accident costs. According to a May 2024 Geotab report, fleets utilizing integrated safety features and telematics data experienced a 40% reduction in collision rates, underscoring the value of connected intelligence in protecting expensive sweeping assets.

## **Key Market Players**

Bucher Municipal

Tennant Company

Elgin Sweeper Company

Hako GmbH

Dulevo International S.p.A.

FAUN Group

Boschung Group

Johnston Sweepers

Alamo Group Inc

TYMCO Inc

## Report Scope

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

Sweeper Truck Market, By Type

Compact Sweeper v/s Truck-mounted Sweeper

Sweeper Truck Market, By Sweeping Type

Mechanical Broom Sweeper

Regenerative-Air Sweeper

Vacuum Sweeper

Sweeper Truck Market, By Application

Urban Road

Airport

Highways

Others

## Sweeper Truck 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 Sweeper Truck Market.

### **Available Customizations:**

Global Sweeper Truck 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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