

Global Silent Dust Collector Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GC5DAE48F3BDEN.html>

Date: January 2026

Pages: 130

Price: US\$ 4,480.00 (Single User License)

ID: GC5DAE48F3BDEN

Abstracts

The global Silent Dust Collector market size is expected to reach \$ 263 million by 2032, rising at a market growth of 6.9% CAGR during the forecast period (2026-2032).

In 2025, global sales of silent dust collectors reached 42,000 units, with an average selling price of US\$3,800 and a total production capacity of approximately 60,000 units per year, resulting in a gross profit margin of approximately 32%. The main upstream raw materials for this product include high-performance filter media (accounting for approximately 40% of raw material costs), high-quality carbon steel and stainless steel sheets (accounting for 35%), and motors and fan components (accounting for 25%), with major suppliers concentrated in China, Germany, and the United States.

Downstream, the main suppliers are industrial manufacturers, woodworking machinery factories, and large-scale workshop purification system integrators, accounting for 50%, 30%, and 20% of consumption, respectively. Silent dust collectors meet the needs of different industrial scenarios through vibration reduction and noise reduction, improved filtration efficiency, and modular design. The future lies in development towards intelligence, energy saving, and customization, while also integrating with the Industrial Internet of Things (IIoT) to achieve remote monitoring and operation and maintenance optimization. Market demand is steadily growing, particularly in industries such as furniture manufacturing, metal processing, and pharmaceuticals, where the increasing demand for low-noise, high-efficiency dust removal equipment brings continuous business opportunities and room for technological innovation.

The silent dust collector market is showing a steady growth trend, driven by factors such as industrial automation upgrades, increasingly stringent environmental regulations, and rising demands for comfortable working environments. Looking at specific market segments, the furniture manufacturing, metal processing, and pharmaceutical industries have the strongest demand for low-noise, high-efficiency dust collection equipment, driving the rapid adoption of small and medium-sized silent dust collectors. Large-scale

industrial applications are also seeing increasing demand for modular and intelligent dust collection systems.

From a technological perspective, intelligent monitoring, remote operation and maintenance, and energy conservation and environmental protection have become the core of differentiated competition, with both domestic and international companies increasing investment in product innovation and system integration capabilities.

Overall, the silent dust collector industry has a relatively fragmented competitive landscape, but leading companies are building barriers through technological advantages, channel integration, and after-sales service, leading to a gradual increase in market concentration. The market size is expected to maintain a compound annual growth rate of 7%-9% over the next five years, with intelligentization and customization becoming the main development directions for the industry.

This report studies the global Silent Dust Collector production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Silent Dust Collector 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 Silent Dust Collector that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Silent Dust Collector total production and demand, 2021-2032, (K Units)

Global Silent Dust Collector total production value, 2021-2032, (USD Million)

Global Silent Dust Collector production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Silent Dust Collector consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Silent Dust Collector domestic production, consumption, key domestic manufacturers and share

Global Silent Dust Collector production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Silent Dust Collector production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Silent Dust Collector production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Silent Dust Collector 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 Nederman, Maxtech Engineers, Leda Machinery, DGSF Machinery, Donaldson, BOFENG, Nilfisk, WSI Machinery, Renfert, KELONG,

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 Silent Dust Collector market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Silent Dust Collector Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Silent Dust Collector Market, Segmentation by Type:

Integrated Soundproof Enclosure Type

Intake/Exhaust Muffler Type

Floating Vibration Damping Base Type

Others

Global Silent Dust Collector Market, Segmentation by Dust Removal Technology:

Cartridge Filter

Bag Filter

Wet Filter

Global Silent Dust Collector Market, Segmentation by Sound Pressure Level:

Sound Pressure Level: 65 - 70 dB(A)

Sound Pressure Level: 70 - 75 dB(A)

Others

Global Silent Dust Collector Market, Segmentation by Application:

Industrial Manufacturing

Cleanroom

Pharmaceuticals

Others

Companies Profiled:

Nederman

Maxtech Engineers

Leda Machinery

DGSF Machinery

Donaldson

BOFENG

Nilfisk

WSI Machinery

Renfert

KELONG

FUYU

JIUTAI

Key Questions Answered:

1. How big is the global Silent Dust Collector market?
2. What is the demand of the global Silent Dust Collector market?
3. What is the year over year growth of the global Silent Dust Collector market?
4. What is the production and production value of the global Silent Dust Collector market?
5. Who are the key producers in the global Silent Dust Collector market?
6. What are the growth factors driving the market demand?

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