

# Global Open Crankcase Ventilation System Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Open Crankcase Ventilation System market size is expected to reach \$ 1257 million by 2032, rising at a market growth of 6.6% CAGR during the forecast period (2026-2032).

In 2025, global sales of open crankcase ventilation systems reached 4.2 million units, with an average selling price of US\$185 per unit. Open crankcase ventilation systems refer to ventilation solutions that directly ventilate engine crankcase blow-by gases through external piping and filtration devices, performing oil-gas separation and emission control. They are primarily used in medium and heavy-duty diesel engines, construction machinery, and generator sets to reduce crankcase pressure, decrease oil contamination, and extend engine life. Upstream raw materials include aluminum alloy housings, stainless steel or engineering plastic piping, fiber filter media, rubber seals, and fasteners. On average, a single system consumes approximately 1.8 kg of aluminum alloy, 0.25 kg of filter media, and 0.15 kg of rubber components. Major upstream suppliers are metal processing, filter material, and seal manufacturers, while downstream direct suppliers include engine OEMs, construction machinery manufacturers, marine power system integrators, and aftermarket repair channels. Global total production capacity in 2025 was approximately 5.2 million units, with an average industry gross margin of approximately 28%-35%. In terms of downstream consumption, construction machinery accounts for approximately 38%, heavy trucks and commercial vehicles account for approximately 34%, ships and power generation equipment account for approximately 18%, and the industrial modification and aftermarket accounts for approximately 10%. Driven by increasingly stringent emission regulations, higher requirements for engine reliability, and growing demand for retrofitting older equipment, open crankcase ventilation systems maintain stable demand in high-load conditions, off-road machinery, and developing markets, and continue to offer business opportunities in the high-efficiency oil-gas separation,

modular design, and aftermarket replacement sectors.

From an overall market perspective, open crankcase ventilation systems are currently in a phase of 'stable demand but constrained technological pathways.' On the one hand, in the fields of construction machinery, marine power, mining equipment, and some non-road diesel engines, the harsh operating conditions and limited maintenance resources mean there is still a strong reliance on open solutions that are simple in structure, highly reliable, and have low maintenance costs. The large scale of existing equipment ensures that aftermarket replacement demand is long-term, forming a relatively rigid basic market. On the other hand, increasingly stringent global emission regulations, especially the stricter controls on crankcase emissions in Europe, the United States, and some Asia-Pacific countries, are squeezing the application space of open systems in new engine installations. Growth is primarily driven by replacements of existing equipment, new equipment in developing regions, and scenarios with relatively relaxed regulations.

From a competition and value structure perspective, this market has a moderate technological threshold and a high degree of product homogeneity. Price competition is more pronounced in standardized models, where OEMs have strong bargaining power. However, in high-power, high-displacement engines and customized solutions for special operating conditions, manufacturers with experience in filtration efficiency, durability, and system matching can maintain good profit margins.

Future market opportunities primarily focus on three areas: first, reducing the overall lifecycle cost of the system by improving oil-gas separation efficiency and extending filter life; second, cultivating the aftermarket and retrofit market by providing standardized replacement parts and service packages; and third, in the context of evolving regulations, creating tiered configurations with closed or semi-closed solutions to meet the needs of customers with different emission levels and cost ranges.

Overall, this market segment is unlikely to experience rapid expansion, but it offers stable cash flow and structural upgrade potential, making it suitable for success through scale, distribution channels, and service capabilities.

This report studies the global Open Crankcase Ventilation System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Open Crankcase Ventilation System 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 Open Crankcase Ventilation System that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Open Crankcase Ventilation System total production and demand, 2021-2032, (K Units)

Global Open Crankcase Ventilation System total production value, 2021-2032, (USD Million)

Global Open Crankcase Ventilation System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Open Crankcase Ventilation System consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Open Crankcase Ventilation System domestic production, consumption, key domestic manufacturers and share

Global Open Crankcase Ventilation System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Open Crankcase Ventilation System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Open Crankcase Ventilation System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Open Crankcase Ventilation System 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 Solberg MFG, MANN+HUMMEL, GFT Filters, Parker, Metal Textiles Corporation, Alfdex, PAWELSON, Hengst Filtration, Fleetguard, Perkins Engines, 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 Open Crankcase Ventilation System 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 Open Crankcase Ventilation System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Open Crankcase Ventilation System Market, Segmentation by Type:

Natural Ventilation

Forced Ventilation

#### Global Open Crankcase Ventilation System Market, Segmentation by Separation Type:

Cyclone Separation

Filtration Separation

Compound Separation

#### Global Open Crankcase Ventilation System Market, Segmentation by Integration:

External Standalone

Integrated

#### Global Open Crankcase Ventilation System Market, Segmentation by Application:

Diesel Engines

Construction Machinery

Others

### **Companies Profiled:**

Solberg MFG

MANN+HUMMEL

GFT Filters

Parker

Metal Textiles Corporation

Alfdex

PAWELSON

Hengst Filtration

Fleetguard

Perkins Engines

### **Key Questions Answered:**

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

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