

Global Oil-Free Screw Vacuum Pumps Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Oil-Free Screw Vacuum Pumps market size is expected to reach \$ 1195 million by 2032, rising at a market growth of 3.5% CAGR during the forecast period (2026-2032).

Oil-free screw vacuum pumps are dry vacuum systems that utilize two synchronously rotating screw rotors to trap, transport, and compress gas through volumetric changes inside the pump chamber. During operation, no lubricating oil is involved in the compression chamber, eliminating contamination risks and making the pumps suitable for clean or process-sensitive environments.

In 2025, the global production of oil-free screw vacuum pumps was 31,600 units, with an average price of US\$28,900 per unit.

Oil-free screw vacuum pumps are dry vacuum systems that operate without lubricating oil in the compression chamber, effectively preventing hydrocarbon contamination and ensuring high gas purity. They play an important role in advanced manufacturing and high-end process industries where cleanliness and reliability are critical.

Upstream includes precision casting and machining suppliers, alloy steel and coating material providers, bearing and mechanical seal manufacturers, motor and variable frequency drive suppliers, as well as control system and sensor companies. Major cost components are precision machining and assembly, corrosion-resistant coating processes, and high-performance motor systems. The quality of key upstream components directly determines overall performance and service life.

Downstream applications are concentrated in semiconductor fabrication, flat panel

display production, photovoltaic manufacturing, lithium battery production, chemical processing, pharmaceutical manufacturing and food processing. In semiconductor and electronics industries, oil-free operation prevents hydrocarbon contamination; in chemical and pharmaceutical sectors, corrosion resistance and continuous stability are emphasized; in new energy manufacturing, energy efficiency and operational reliability are key factors. Market demand is closely linked to capital expenditure cycles in advanced manufacturing.

Industry trends focus on improving energy efficiency, enhancing corrosion and high-temperature resistance, integrating variable frequency energy-saving systems, advancing intelligent monitoring and remote maintenance, and reducing total life-cycle costs. As environmental standards and manufacturing precision requirements increase, penetration of oil-free vacuum technology continues to expand.

Gross margins typically range from 30% to 50%. Standard industrial models generally achieve margins of 30%?40%, while semiconductor-grade or corrosion-resistant customized models may reach 40%?50%. The industry has relatively high technical barriers, with competitiveness centered on precision manufacturing capability, material control and system integration expertise.

This report studies the global Oil-Free Screw Vacuum Pumps production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Oil-Free Screw Vacuum Pumps 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 Oil-Free Screw Vacuum Pumps that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Oil-Free Screw Vacuum Pumps total production and demand, 2021-2032, (Units)

Global Oil-Free Screw Vacuum Pumps total production value, 2021-2032, (USD Million)

Global Oil-Free Screw Vacuum Pumps production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Oil-Free Screw Vacuum Pumps consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Oil-Free Screw Vacuum Pumps domestic production, consumption, key domestic manufacturers and share

Global Oil-Free Screw Vacuum Pumps production by manufacturer, production, price,

value and market share 2021-2026, (USD Million) & (Units)

Global Oil-Free Screw Vacuum Pumps production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Oil-Free Screw Vacuum Pumps production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Oil-Free Screw Vacuum Pumps 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 Atlas Copco, Busch, Ingersoll Rand, Flowserve, EBARA, ULVAC, Kashiwama, Osaka Vacuum, Shinko Seiki, Hanbell, 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 Oil-Free Screw Vacuum Pumps 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 Oil-Free Screw Vacuum Pumps Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Oil-Free Screw Vacuum Pumps Market, Segmentation by Type:

Single-Stage Compression

Multi-Stage Compression

Global Oil-Free Screw Vacuum Pumps Market, Segmentation by Screw Pitch:

Constant Pitch Screw Pump

Variable Pitch Screw Pump

Global Oil-Free Screw Vacuum Pumps Market, Segmentation by Structure:

Vertical

Horizontal

Global Oil-Free Screw Vacuum Pumps Market, Segmentation by Application:

Semiconductor Vacuum Processing

Lithium Battery Electrode and Packaging Vacuuming

Chemical and Pharmaceutical Process Evacuation

Photovoltaic Cell Manufacturing

Food and Precision Electronics Manufacturing

Companies Profiled:

Atlas Copco

Busch

Ingersoll Rand

Flowserve

EBARA

ULVAC

Kashiyama

Osaka Vacuum

Shinko Seiki

Hanbell

Baosi

VPS

EVP Vacuum

Taiko Vacuum Technology

KKTech

Dongbang

Kowel

Key Questions Answered:

1. How big is the global Oil-Free Screw Vacuum Pumps market?

2. What is the demand of the global Oil-Free Screw Vacuum Pumps market?
3. What is the year over year growth of the global Oil-Free Screw Vacuum Pumps market?
4. What is the production and production value of the global Oil-Free Screw Vacuum Pumps market?
5. Who are the key producers in the global Oil-Free Screw Vacuum Pumps market?
6. What are the growth factors driving the market demand?

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