

Global Oil-Free Dry Screw Compressor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Oil-Free Dry Screw Compressor market size is expected to reach \$ 530 million by 2032, rising at a market growth of 3.2% CAGR during the forecast period (2026-2032).

In 2025, global production of oil-free dry screw compressors reached 12,755 units, with an average selling price of 32,500 USD/unit. The global annual production capacity of oil-free dry screw compressors is approximately 20,000 units, and the gross profit margin is about 25.2%. An oil-free dry screw compressor is a type of mechanical equipment specifically designed for gas compression, with its core feature being that no lubricating oil is used during the compression process. This design ensures that the output gas is free from oil contamination, making it suitable for industrial applications that require extremely high gas purity. The upstream of oil-free dry screw compressors includes high-strength ductile cast iron, special alloy steels, and high-precision rolling bearings. The midstream consists of oil-free dry screw compressor manufacturers, while the downstream is mainly applied in industries such as medical, chemical, and electronics.

Currently, the market for oil-free dry screw compressors is in a phase of steady growth, driven by the rising global demand for high-purity oil-free gases and the increasingly stringent standards for compressed air quality in end-user industries such as medical, chemical, and electronics. These compressors, with their advantages of delivering oil-free output, reliable operation, and manageable maintenance costs, are gradually replacing part of the market share traditionally held by lubricated compressors. Meanwhile, technological advancements are focused on higher energy efficiency, lower noise levels, and intelligent monitoring capabilities to meet complex application requirements under various operating conditions. Despite challenges such as high initial

investment and demanding machining precision for core components, the overall market outlook remains positive, and policy trends toward green manufacturing and energy conservation are accelerating their adoption across different industrial sectors.

Report Scope

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

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

Highlights and key features of the study

Global Oil-Free Dry Screw Compressor total production and demand, 2021-2032, (Units)

Global Oil-Free Dry Screw Compressor total production value, 2021-2032, (USD Million)

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

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

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

Global Oil-Free Dry Screw Compressor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

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

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

This report profiles key players in the global Oil-Free Dry Screw Compressor 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 KAESER KOMPRESSOREN, Sullair, Atlas Copco, AERZEN, Gardner Denver, Denair, compare, Hitachi, Ingersoll Rand, Kobelco, 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 Dry Screw Compressor 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 Dry Screw Compressor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Oil-Free Dry Screw Compressor Market, Segmentation by Type:

Air-Cooled

Water-Cooled

Integrated

Global Oil-Free Dry Screw Compressor Market, Segmentation by Compression Stages:

Single-Stage Compressor

Two-Stage Compressor

Global Oil-Free Dry Screw Compressor Market, Segmentation by Pressure Rating:

?1.0MPa

1.0-10MPa

10-100MPa

Global Oil-Free Dry Screw Compressor Market, Segmentation by Application:

Medical

Chemical

Electronic

Mechanical

Others

Companies Profiled:

KAESER KOMPRESSOREN

Sullair

Atlas Copco

AERZEN

Gardner Denver

Denair

compare

Hitachi

Ingersoll Rand

Kobelco

Elgi

Fusheng

ENGINEERING THE FUTURE

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Key Questions Answered:

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

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