

Global Oil-Free Screw Gas Compressor Market Growth 2026-2032

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Abstracts

The global Oil-Free Screw Gas Compressor market size is predicted to grow from US\$ 1467 million in 2025 to US\$ 2120 million in 2032; it is expected to grow at a CAGR of 5.2% from 2026 to 2032.

Oil-Free Screw Gas Compressor refers to positive displacement gas compression equipment that uses a pair of intermeshing screw rotors to continuously compress industrial or process gases without introducing lubricating oil into the compression chamber. It typically adopts dry twin-screw rotors, timing gears, shaft sealing systems, interstage cooling, water cooling or air cooling to achieve oil-free, stable and low-contamination gas compression. The product mainly handles hydrogen, nitrogen, carbon dioxide, natural gas, biogas, flash gas, tail gas, sour gas, syngas and various mixed process gases, and is suitable for low-medium, medium and selected medium-high pressure operating conditions. It is commonly supplied as a bare compressor, skid-mounted compression system or engineered gas recovery system. Main applications include petrochemicals, chemicals, refining, natural gas processing, LNG, biogas upgrading, industrial gases, hydrogen circulation, tail gas recovery, vapor recompression and low-carbon gas recovery. Major production bases are concentrated in Germany, the United States, Japan, Sweden, China, Switzerland and Italy, with competition focused on rotor profile design, sealing systems, contamination tolerance, continuous-duty reliability, energy efficiency and engineering customization capability.

In 2025, global Oil-Free Screw Gas Compressor production reached approximately 2,050-2,350 units. On an ex-works basis for core compressors and skid-mounted compression systems, the global weighted-average FOB price was approximately USD 610,000-690,000 per unit. Natural gas processing, biogas upgrading, flare gas recovery, process gas circulation, vapor recompression and medium-pressure hydrogen

circulation applications contributed the majority of revenue, while medium- and small-sized industrial gas and recovery gas compression equipment contributed part of shipment volume. Actual transaction prices were mainly determined by gas medium, suction pressure, discharge pressure, flow rate, gas moisture content, corrosiveness, rotor material, shaft sealing system, explosion-proof rating, cooling method and skid scope.

Against the backdrop of continuous upgrades in global chemical, energy and low-carbon gas value chains, Oil-Free Screw Gas Compressors are becoming important equipment for process gas circulation, natural gas processing, biogas upgrading, tail gas recovery, hydrogen circulation and vapor recompression, supported by their strong continuous-duty capability, broad flow adaptability, compact structure, low vibration and oil-free gas path. Compared with oil-free reciprocating gas compressors, oil-free screw gas compressors are better suited to low-medium to medium pressure, continuous-load and medium to relatively large-flow conditions. Compared with oil-free centrifugal gas compressors, they offer stronger adaptability to gas composition fluctuation, molecular weight variation, moisture and certain contaminated gases, making them competitive in recovery gas, mixed gas and variable-duty industrial projects. Chart Howden states that its oil-free screw compressors are used in vapor recompression, gas liquefaction, flare gas recovery, gas gathering and sour gas handling, while KOBELCO positions dry oil-free screw compressors for applications where process gas oil contamination must be avoided.

The main market challenges come from high-precision rotor manufacturing, sealing system reliability, temperature rise control, noise control, material compatibility and complex design requirements for non-standard operating conditions. Large oil-free screw gas compressors usually serve refining, natural gas, chemical and energy projects with high unit value, but market growth is highly affected by project investment cycles, LNG and gas processing construction, and the pace of hydrogen and low-carbon gas project deployment. Future demand will continue shifting toward modular skid packages, low-leakage shaft seals, variable-speed energy-saving control, compatibility with wet or complex mixed gases, digital condition monitoring and long-cycle operating services. Manufacturers with strong rotor design, process gas experience and packaged system capabilities will be better positioned to win large industrial project orders.

LP Information, Inc. (LPI) ' newest research report, the "Oil-Free Screw Gas Compressor Industry Forecast" looks at past sales and reviews total world Oil-Free Screw Gas Compressor sales in 2025, providing a comprehensive analysis by region

and market sector of projected Oil-Free Screw Gas Compressor sales for 2026 through 2032. With Oil-Free Screw Gas Compressor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Oil-Free Screw Gas Compressor industry.

This Insight Report provides a comprehensive analysis of the global Oil-Free Screw Gas Compressor landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Oil-Free Screw Gas Compressor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Oil-Free Screw Gas Compressor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Oil-Free Screw Gas Compressor and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Oil-Free Screw Gas Compressor.

This report presents a comprehensive overview, market shares, and growth opportunities of Oil-Free Screw Gas Compressor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Single Stage

Two Stage

Multi Stage

Segmentation by Gas Medium:

Natural Gas and Biogas

Hydrocarbon and Mixed Process Gas

Hydrogen and Hydrogen Rich Gas

Others

Segmentation by Pressure Class:

Low Pressure

Medium Pressure

High Pressure

Ultra High Pressure

Segmentation by Flow Capacity:

Small Flow

Medium Flow

Large Flow

Segmentation by Application:

Oil and Gas

Chemical and Petrochemical

Industrial Gas and Energy

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Atlas Copco AB

Chart Industries, Inc.

Everllence SE

Aerzener Maschinenfabrik GmbH

Kobe Steel, Ltd.

Kaishan Group Co., Ltd.

ADEKOM KOMPRESSOREN (DONGGUAN) LIMITED

Key Questions Addressed in this Report

What is the 10-year outlook for the global Oil-Free Screw Gas Compressor market?

What factors are driving Oil-Free Screw Gas Compressor market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Oil-Free Screw Gas Compressor market opportunities vary by end market size?

How does Oil-Free Screw Gas Compressor break out by Type, by Application?

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