

# Global Helical-lobe Compressor Market Growth 2025-2031

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## Abstracts

The global Helical-lobe Compressor market size is predicted to grow from US\$ million in 2025 to US\$ million in 2031; it is expected to grow at a CAGR of %from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

The Helical-lobe Compressor is a type of positive displacement gas compression equipment that compresses gas by the rotation of helically shaped lobes. Its structural feature involves two or more helical lobes intermeshing to form sealed chambers within the compression housing, enabling efficient gas intake, compression, and discharge. Compared to traditional reciprocating compressors, the helical-lobe compressor offers advantages such as compact structure, smooth operation, low noise, minimal vibration, and ease of maintenance. It is widely used in industries including petrochemical, refrigeration and air conditioning, natural gas transmission, food processing, and pharmaceuticals. Suitable for medium to low pressure applications, this compressor can operate continuously and reliably, meeting industrial demands for efficient and stable gas supply. With the advancement of industrial automation and intelligent control, performance optimizations and energy efficiency improvements of helical-lobe compressors have made them an essential part of modern industrial gas compression solutions. Industry research focuses on technological innovations, market demand shifts, expansion of application fields, and trends in environmental protection and energy saving, providing crucial insights for strategic planning and investment decisions.

### Market Development Opportunities & Main Driving Factors

With the continuous advancement of industrial automation and intelligent manufacturing, the demand for helical-lobe compressors in various industrial gas compression fields is steadily increasing. Its compact structure, smooth operation, and energy efficiency make it a key upgrade equipment in industries such as petrochemical, natural gas transmission, and refrigeration. Furthermore, increasingly stringent environmental regulations are driving enterprises to adopt more energy-efficient and low-emission compression equipment, providing strong momentum for market expansion. Rapid industrialization and infrastructure development in emerging markets also create additional growth opportunities.

### Market Challenges, Risks, & Restraints

Although the market potential for helical-lobe compressors is significant, intense industry competition and high technical barriers require substantial R&D investment and manufacturing costs, posing entry challenges for small and medium enterprises. Additionally, established traditional compressor manufacturers still dominate the market, creating resistance to new technology adoption. Fluctuations in raw material prices and supply chain instability may impact equipment costs and delivery schedules, adding to market risks. Demand cyclicalities may also lead to underutilization of production capacity.

### Downstream Demand Trends

End-users increasingly demand higher stability, energy efficiency, and intelligent management of helical-lobe compressors, driving continuous product upgrades. Especially in high-end applications such as natural gas, refrigeration, and pharmaceuticals, there is growing emphasis on reliability and environmental performance. Looking ahead, green and low-carbon development concepts will further guide downstream enterprises to adopt high-efficiency, energy-saving compressor equipment, fostering demand growth toward higher value-added and customized products.

LP Information, Inc. (LPI) ' newest research report, the "Helical-lobe Compressor Industry Forecast" looks at past sales and reviews total world Helical-lobe Compressor sales in 2024, providing a comprehensive analysis by region and market sector of projected Helical-lobe Compressor sales for 2025 through 2031. With Helical-lobe Compressor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Helical-lobe Compressor

industry.

This Insight Report provides a comprehensive analysis of the global Helical-lobe 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 Helical-lobe Compressor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Helical-lobe Compressor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Helical-lobe 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 Helical-lobe Compressor.

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

### **Segmentation by Type:**

Oil-injected

Oil-free

Liquid Injection

### **Segmentation by Application:**

Chemical & Petrochemicals

Food & Beverage

Mining & Metals

Oil & Gas

Automotive

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

Ingersoll Rand

Parker

Baker Hughes

KraussMaffei

Artes Group

Honeywell

Rolls-Royce

Howden

SPX Flow

GE Oil & Gas

Gardner Denver, Inc.

Siemens AG

Hitachi Ltd.

Man SE

Kobe Steel Ltd.

Boge Kompressoren

Sullair LLC

Kaeser Kompressoren SE

Bauer Kompressoren

### **Key Questions Addressed in this Report**

What is the 10-year outlook for the global Helical-lobe Compressor market?

What factors are driving Helical-lobe Compressor market growth, globally and by region?

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

How do Helical-lobe Compressor market opportunities vary by end market size?

How does Helical-lobe Compressor break out by Type, by Application?

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