

Global High Pressure Screw Air Compressor Market Growth 2026-2032

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Abstracts

The global High Pressure Screw Air Compressor market size is predicted to grow from US\$ 1399 million in 2025 to US\$ 2354 million in 2032; it is expected to grow at a CAGR of 7.9% from 2026 to 2032.

High Pressure Screw Air Compressor is a type of air compression equipment that uses screw rotors to compress air and deliver high-pressure output, typically operating at pressures higher than standard compressors. It is widely used in PET bottle blowing, gas transmission, petrochemical processing, energy, and defense applications where high-pressure air supply is required.

In 2025, the global production of high-pressure screw air compressors was 342,000 units, with an average price of US\$4,180 per unit.

Upstream mainly includes screw airends, precision bearings, motors, control systems, cooling systems, and high-strength materials. The machining precision of screw rotors and sealing technology are critical to performance and efficiency. While the supply chain is relatively mature, some high-end core components are still dominated by leading manufacturers. Downstream demand is led by the PET packaging industry, and also includes chemical processing, natural gas compression, industrial gas transmission, and high-pressure testing. PET bottle blowing requires stable high-pressure output and continuous operation, making it the primary demand driver, while energy and chemical sectors emphasize reliability and safety, with demand closely linked to industrial production cycles.

In terms of development trends, high pressure screw air compressors are evolving toward higher efficiency, energy saving, and intelligent operation. Technologies such as

variable frequency drives, two-stage compression, and energy recovery are increasingly adopted to reduce energy consumption and improve system efficiency. Equipment is also moving toward low-noise and compact designs. Digital monitoring and remote maintenance are becoming important for enhancing operational stability and maintenance efficiency. Key drivers include growth in the packaging industry, expansion of industrial gas applications, and policy support for energy efficiency upgrades, along with the continuous expansion of high-pressure application scenarios. However, challenges include high manufacturing costs, significant technical barriers, and competition from alternative technologies such as centrifugal compressors in certain applications, which may constrain market growth.

Overall, the industry maintains a medium-to-high gross margin, typically ranging from 25% to 40%. Competition in standardized low- to mid-end products is increasing, leading to pricing pressure, while high-pressure, energy-efficient, and customized solutions offer higher technical barriers and added value, resulting in stronger profitability. Companies with core air end design capabilities, energy-saving technologies, and strong service networks are better positioned to compete effectively.

LP Information, Inc. (LPI) ' newest research report, the "High Pressure Screw Air Compressor Industry Forecast" looks at past sales and reviews total world High Pressure Screw Air Compressor sales in 2025, providing a comprehensive analysis by region and market sector of projected High Pressure Screw Air Compressor sales for 2026 through 2032. With High Pressure Screw Air Compressor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world High Pressure Screw Air Compressor industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for High Pressure Screw Air 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 High Pressure Screw Air Compressor.

This report presents a comprehensive overview, market shares, and growth opportunities of High Pressure Screw Air Compressor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Oil-Injected Screw Air Compressor

Oil-Free Screw Air Compressor

Segmentation by Working Pressure:

13?20 bar

20?25 bar

25?42 bar

Segmentation by System Configuration:

Single-Stage High Pressure Screw Air Compressor

Two-Stage High Pressure Screw Air Compressor

Screw plus Booster System

Segmentation by Application:

PET Bottle Blowing

High-Pressure Industrial Process Air

Specialty Manufacturing Compressed Air Systems

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 (SE)

Ingersoll Rand (US)

Sullair (US)

Kaeser Kompressoren (DE)

Boge (DE)

Gardner Denver (US)

Hitachi (JP)

Kobelco (JP)

Fusheng (TW)

Quincy (US)

Kaishan (CN)

Hanbell (CN)

Baos (CN)

Hongwuhuan (CN)

Zhigao Machinery (CN)

Xinlei (CN)

Key Questions Addressed in this Report

What is the 10-year outlook for the global High Pressure Screw Air Compressor market?

What factors are driving High Pressure Screw Air Compressor market growth, globally and by region?

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

How do High Pressure Screw Air Compressor market opportunities vary by end market size?

How does High Pressure Screw Air Compressor break out by Type, by Application?

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