

Global High Pressure Screw Air Compressor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global High Pressure Screw Air Compressor market size is expected to reach \$ 2413 million by 2032, rising at a market growth of 7.4% CAGR during the forecast period (2026-2032).

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.

This report studies the global High Pressure Screw Air Compressor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High Pressure Screw Air 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 High Pressure Screw Air Compressor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High Pressure Screw Air Compressor total production and demand, 2021-2032, (Units)

Global High Pressure Screw Air Compressor total production value, 2021-2032, (USD Million)

Global High Pressure Screw Air Compressor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global High Pressure Screw Air Compressor consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: High Pressure Screw Air Compressor domestic production, consumption, key domestic manufacturers and share

Global High Pressure Screw Air Compressor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global High Pressure Screw Air Compressor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global High Pressure Screw Air Compressor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global High Pressure Screw Air 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 Atlas Copco (SE), Ingersoll Rand (US), Sullair (US), Kaeser Kompressoren (DE), Boge (DE), Gardner Denver (US), Hitachi (JP), Kobelco (JP), Fusheng (TW), Quincy (US), 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 High Pressure Screw Air 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 High Pressure Screw Air Compressor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High Pressure Screw Air Compressor Market, Segmentation by Type:

Oil-Injected Screw Air Compressor

Oil-Free Screw Air Compressor

Global High Pressure Screw Air Compressor Market, Segmentation by Working Pressure:

13?20 bar

20?25 bar

25?42 bar

Global High Pressure Screw Air Compressor Market, Segmentation by System Configuration:

Single-Stage High Pressure Screw Air Compressor

Two-Stage High Pressure Screw Air Compressor

Screw plus Booster System

Global High Pressure Screw Air Compressor Market, Segmentation by Application:

PET Bottle Blowing

High-Pressure Industrial Process Air

Specialty Manufacturing Compressed Air Systems

Others

Companies Profiled:

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 Answered:

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

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