

Global Screw Booster Air Compressor Market Growth 2026-2032

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Abstracts

The global Screw Booster Air Compressor market size is predicted to grow from US\$ 12336 million in 2025 to US\$ 18156 million in 2032; it is expected to grow at a CAGR of 5.7% from 2026 to 2032.

Screw Booster Air Compressor refers to an industrial compression system that utilizes rotary screw compression technology to increase the pressure of compressed air or other gases through continuous engagement of male and female rotors. The equipment integrates screw compression elements, drive motors, control systems, cooling modules, oil separation systems, pressure regulation components, and monitoring units to provide stable high-pressure gas supply. Compared with conventional reciprocating compressors, screw booster air compressors feature continuous operation capability, lower vibration, stable airflow output, high reliability, and improved energy efficiency. The research scope focuses on industrial screw-based booster compression equipment used for applications requiring elevated pressure levels, including manufacturing processes, automotive production, petrochemical operations, electronics and semiconductor fabrication, energy systems, and other industrial environments.

Key Findings

Global shipments reached approximately 485 thousand units in 2025 with an average selling price of around US\$26,000 per unit

Global production capacity reached approximately 680 thousand units annually in 2025

Average industry gross margin was approximately 32% in 2025

Medium-pressure screw booster compressors represented the mainstream product segment with broad industrial adoption

Manufacturing and automotive industries remained major application areas for screw booster air compressors

Market Trends

The screw booster air compressor industry is evolving toward higher efficiency, intelligent control, oil-free operation, and integrated system solutions. Increasing energy costs and stricter industrial energy efficiency requirements are accelerating the adoption of variable-speed drive systems, permanent magnet motors, and intelligent monitoring platforms. Manufacturers are increasingly integrating Internet of Things connectivity, remote diagnostics, predictive maintenance, and energy management functions into compressor systems to reduce lifecycle operating costs. Product development is also moving toward higher pressure capability, compact structures, improved reliability, and customized solutions for specific industrial processes. In emerging applications such as semiconductor manufacturing, hydrogen energy equipment, new energy battery production, and advanced manufacturing, demand is shifting from standard compressed air equipment toward high-performance compression solutions with higher cleanliness, stability, and automation levels.

Market Dynamics

Drivers

The growth of the screw booster air compressor market is primarily driven by industrial automation expansion, manufacturing capacity upgrades, and increasing demand for reliable compressed gas systems. Automotive production, semiconductor manufacturing, petrochemical processing, and new energy industries require stable high-pressure air supply to support precision processes and continuous production. Replacement demand from aging compressed air infrastructure also creates a significant aftermarket opportunity, as enterprises seek equipment with lower energy consumption, improved operating efficiency, and reduced maintenance requirements. The global transition toward smart factories further supports demand for digitally connected compressor systems capable of real-time monitoring and optimization.

Restraints

The market faces limitations from relatively high initial investment costs, complex equipment maintenance requirements, and competition from alternative compression technologies such as reciprocating compressors and centrifugal compressors in certain pressure ranges. Customers with stable and low-pressure requirements may continue using conventional equipment due to lower procurement costs. In addition, fluctuations in raw material prices, especially steel, precision components, motors, and electronic control modules, can affect manufacturing costs and profitability. High technical requirements for screw rotor manufacturing and system integration also create barriers for new market entrants.

Opportunities

Future opportunities are concentrated in energy-efficient compressor upgrades, high-pressure industrial applications, semiconductor and electronics manufacturing expansion, hydrogen-related infrastructure, and overseas industrial development. The increasing demand for oil-free compressed air in healthcare, electronics, food processing, and advanced manufacturing provides additional opportunities for premium products. Companies with strong capabilities in digital monitoring, energy optimization, customized engineering, and after-sales service are expected to capture greater value in the evolving market.

Challenges

The industry faces challenges from intensifying global competition, increasing requirements for energy efficiency certification, and demand for shorter return-on-investment periods from industrial customers. Manufacturers must continuously improve compressor efficiency, reduce operating costs, and enhance product reliability to maintain competitiveness. Supply chain stability for precision components, electronic systems, and key materials remains an important challenge, particularly for companies expanding globally. In addition, increasing demand for low-carbon industrial equipment requires continuous investment in technology innovation.

Industry Chain Analysis

The screw booster air compressor industry chain consists of upstream raw material suppliers, midstream equipment manufacturers, and downstream industrial users. The upstream segment includes steel materials, aluminum alloys, precision castings, screw rotors, bearings, motors, frequency converters, controllers, sensors, valves, lubricants, filters, and sealing components. These materials and components directly influence

equipment efficiency, durability, and operating reliability. The midstream segment includes compressor manufacturers responsible for screw rotor machining, compressor assembly, system integration, performance testing, and intelligent control development. The downstream segment covers automotive manufacturers, machinery producers, semiconductor companies, petrochemical enterprises, food and beverage manufacturers, pharmaceutical companies, energy companies, and industrial parks. Value creation mainly comes from advanced compression technology, energy efficiency improvement, system integration capability, and lifecycle service solutions.

Segment Insights

By pressure range, screw booster air compressors can be categorized into low-pressure, medium-pressure, high-pressure, and ultra-high-pressure systems. Medium-pressure products represent the largest segment due to their wide application across general industrial manufacturing, while high-pressure systems are increasingly adopted in specialized applications such as PET production, energy equipment, and advanced manufacturing. By lubrication technology, oil-injected systems remain dominant because of their cost efficiency and mature technology, while oil-free systems are gaining attention in industries requiring clean air quality. By application, manufacturing and automotive industries represent major demand areas, while semiconductor, new energy, and hydrogen-related industries provide higher-growth opportunities due to stricter requirements for stable and clean compressed gas supply.

Downstream Market Opportunities

The downstream market for screw booster air compressors is closely linked with industrial production expansion and equipment modernization. Automotive factories use these systems for production lines, assembly operations, and process equipment, while semiconductor and electronics manufacturers require highly stable compressed air environments. Petrochemical and energy industries demand reliable gas compression solutions for process applications. Future opportunities are expected from smart manufacturing facilities, new energy battery production, hydrogen infrastructure, and industrial digital transformation, where customers increasingly prefer integrated compressor systems combining hardware, software monitoring, and energy management capabilities.

Regional Insights

Asia-Pacific represents the largest regional market due to its extensive manufacturing

base, rapid industrial automation development, and strong demand from automotive, electronics, and semiconductor industries. China remains an important production and consumption center, supported by large-scale manufacturing industries and ongoing industrial upgrading. Japan and South Korea maintain competitive advantages in precision manufacturing and advanced industrial applications. Europe and North America focus more on energy-efficient, intelligent, and environmentally friendly compressor solutions, with demand driven by industrial modernization and sustainability requirements. Emerging industrial markets in Southeast Asia, the Middle East, and Latin America provide additional growth opportunities through infrastructure development and manufacturing expansion.

Competitive Landscape Analysis

The screw booster air compressor market features a combination of global industrial equipment leaders, regional compressor manufacturers, and specialized compression solution providers. International companies with strong technology capabilities compete through energy efficiency, product reliability, global service networks, and advanced control systems. Regional manufacturers compete through cost advantages, localized service capabilities, and customized engineering solutions. The competitive focus is shifting from traditional compressor hardware toward integrated solutions combining high-efficiency compression units, intelligent monitoring platforms, lifecycle maintenance services, and application-specific engineering. Companies with strong screw rotor technology, digital capabilities, and global distribution networks are positioned to maintain stronger competitiveness in premium industrial markets.

Report Scope

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

This Insight Report provides a comprehensive analysis of the global Screw Booster 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

Screw Booster Air Compressor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Screw Booster Air Compressor market.

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

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

Market Segmentation

Segmentation by Type:

Single-stage Screw Supercharger

Two-stage Screw Supercharger

Multi-stage Screw Supercharger

Segmentation by Working Pressure:

Working Pressure: 0.8~3 bar

Working Pressure: 3~16 bar

Working Pressure: 16~40 bar

Working Pressure: >40 bar

Segmentation by Lubrication Method:

Oil-sprayed

Oil-free

Segmentation by Application:

Automotive Industry

Petrochemical Industry

Electronics & Semiconductors

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

Kaeser

Sullair

National Compressed Air

BOGE

Ingersoll Rand

Hitachi

JUCAI

SHANGAI

KAISHAN

Aerzen

HENGDA

Key Questions Addressed in this Report

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

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

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

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

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

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