

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

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Abstracts

The global Screw Booster Air Compressor market size is expected to reach \$ 18737 million by 2032, rising at a market growth of 5.4% CAGR during the forecast period (2026-2032).

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

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

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

Highlights and key features of the study

Global Screw Booster Air Compressor total production and demand, 2021-2032, (K Units)

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

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

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

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

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

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

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

This report profiles key players in the global Screw Booster 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, Kaeser, Sullair, National Compressed Air, BOGE, Ingersoll Rand, Hitachi, JUCAI, SHANGAI, KAISHAN, 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 Screw Booster Air Compressor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Screw Booster Air Compressor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Screw Booster Air Compressor Market, Segmentation by Type:

Single-stage Screw Supercharger

Two-stage Screw Supercharger

Multi-stage Screw Supercharger

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

Working Pressure: 0.8~3 bar

Working Pressure: 3~16 bar

Working Pressure: 16~40 bar

Working Pressure: >40 bar

Global Screw Booster Air Compressor Market, Segmentation by Lubrication Method:

Oil-sprayed

Oil-free

Global Screw Booster Air Compressor Market, Segmentation by Application:

Automotive Industry

Petrochemical Industry

Electronics & Semiconductors

Others

Companies Profiled:

Atlas Copco

Kaeser

Sullair

National Compressed Air

BOGE

Ingersoll Rand

Hitachi

JUCAI

SHANGAI

KAISHAN

Aerzen

HENGDA

Key Questions Answered

1. How big is the global Screw Booster Air Compressor market?
2. What is the demand of the global Screw Booster Air Compressor market?
3. What is the year over year growth of the global Screw Booster Air Compressor

market?

4. What is the total value of the global Screw Booster Air Compressor market?
5. Who are the Major Players in the global Screw Booster Air Compressor market?
6. What are the growth factors driving the market demand?

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