

Global Screw Booster Air Compressor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Screw Booster Air Compressor market size was valued at US\$ 12975 million in 2025 and is forecast to a readjusted size of US\$ 18737 million by 2032 with a CAGR of 5.4% during review period.

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 is a detailed and comprehensive analysis for global Screw Booster Air Compressor market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Screw Booster Air Compressor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Screw Booster Air Compressor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Screw Booster Air Compressor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Screw Booster Air Compressor market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Screw Booster Air Compressor

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Screw Booster Air Compressor market based on the following parameters - company overview, sales quantity, revenue, 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.

Screw Booster Air Compressor market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market Segmentation

Market segment by Type

Single-stage Screw Supercharger

Two-stage Screw Supercharger

Multi-stage Screw Supercharger

Market segment by Working Pressure

Working Pressure: 0.8~3 bar

Working Pressure: 3~16 bar

Working Pressure: 16~40 bar

Working Pressure: >40 bar

Market segment by Lubrication Method

Oil-sprayed

Oil-free

Market segment by Application

Automotive Industry

Petrochemical Industry

Electronics & Semiconductors

Others

Major players covered

Atlas Copco

Kaeser

Sullair

National Compressed Air

BOGE

Ingersoll Rand

Hitachi

JUCAI

SHANGAI

KAISHAN

Aerzen

HENGDA

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Screw Booster Air Compressor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Screw Booster Air Compressor, with price, sales quantity, revenue, and global market share of Screw Booster Air Compressor from 2021 to 2026.

Chapter 3, the Screw Booster Air Compressor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Screw Booster Air Compressor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Screw Booster Air Compressor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Screw Booster Air Compressor.

Chapter 14 and 15, to describe Screw Booster Air Compressor sales channel, distributors, customers, research findings and conclusion.

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