

# **Booster Compressor Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Single Stage Booster Compressor, Double Stage Booster Compressor, Multi-Stage Booster Compressor), By Power Source (Electric Driven, Diesel Driven, Gas Driven), By End-Use Industry (Oil and Gas, Power Generation, Chemical and Petrochemical, Manufacturing, Automotive, Food and Beverage, Aerospace, Other), By Region & Competition, 2020-2030F**

<https://marketpublishers.com/r/B1188189F3BFEN.html>

Date: June 2025

Pages: 185

Price: US\$ 4,500.00 (Single User License)

ID: B1188189F3BFEN

## **Abstracts**

### Market Overview

The Global Booster Compressor Market was valued at USD 2.42 billion in 2024 and is projected to reach USD 3.19 billion by 2030, growing at a CAGR of 4.56% during the forecast period. Booster compressors serve a critical role in increasing the pressure of pre-compressed air or gas for specialized industrial operations. Widely used in sectors such as oil and gas, power generation, chemicals, electronics, and food and beverage, these systems provide the high-pressure output required for tasks like PET bottle molding, gas pipeline transmission, and laser cutting. Market growth is driven by rising energy demand, industrial automation, and the proliferation of advanced machinery across manufacturing sectors. Additionally, the use of PET packaging in consumer goods and rising infrastructure development in emerging regions further supports demand. Growing environmental awareness is also prompting industries to adopt energy-efficient and low-emission booster compressors in alignment with sustainability

goals.

## Key Market Drivers

### Increasing Demand from the Oil and Gas Industry

The oil and gas sector is a key growth driver for the booster compressor market, leveraging these systems across upstream, midstream, and downstream operations. Booster compressors ensure consistent high-pressure levels essential for natural gas extraction, long-distance pipeline transport, and refining processes. As global energy consumption grows, especially in developing regions, the demand for oil and gas exploration and infrastructure expands. Additionally, with a shift toward offshore and deep-water reserves, the need for robust high-capacity compressors is intensifying. Booster compressors also play a vital role in emerging clean energy solutions such as compressed natural gas (CNG) and liquefied natural gas (LNG), supporting power generation and fuel distribution. Their use in enhanced oil recovery and hydrocarbon blanketing further reinforces their importance in optimizing production processes, while compliance with strict environmental regulations drives adoption of energy-efficient models.

## Key Market Challenges

### High Initial Capital Investment and Cost Sensitivity

A major obstacle facing the booster compressor market is the high upfront cost associated with advanced systems. Sophisticated units equipped with energy-efficient features, smart monitoring, and IoT capabilities demand significant capital for purchase, installation, and integration. This presents a barrier, especially for small and medium-sized enterprises or buyers in cost-sensitive and emerging markets. In addition to initial expenses, ongoing maintenance, skilled labor requirements, and operational costs add to the total cost of ownership. Economic volatility, limited financing access, and fluctuating commodity prices in key industries such as oil and gas further constrain spending on capital-intensive equipment. Many end users prioritize affordability over innovation, which puts pressure on manufacturers to balance performance with cost efficiency. Without accessible financing or modular, scalable solutions, market penetration in developing regions remains restricted, hindering overall growth potential.

## Key Market Trends

## Integration of Smart Monitoring and Predictive Maintenance Technologies

The adoption of smart technologies and predictive maintenance tools is transforming the booster compressor landscape. In line with Industry 4.0 trends, modern compressors are being equipped with intelligent sensors and communication modules that enable real-time tracking of key performance parameters such as pressure, temperature, and vibration. These connected systems facilitate remote monitoring, enhance system uptime, and prevent breakdowns through early warnings and data-driven diagnostics. AI and machine learning algorithms are being integrated for predictive maintenance, allowing operators to address mechanical issues proactively and reduce operational disruptions. The deployment of IoT-enabled compressors also supports seamless integration with industrial control systems like SCADA and DCS. This digital shift is helping end-users optimize energy use, improve lifecycle efficiency, and comply with sustainability and regulatory standards. The increasing focus on operational intelligence and reliability is expected to accelerate the adoption of smart booster compressors across industries worldwide.

### Key Market Players

Atlas Copco AB

Ingersoll Rand Inc.

Kaeser Kompressoren SE

BAUER Kompressoren GmbH

Sauer Compressors (J.P. Sauer & Sohn Maschinenbau GmbH)

Gardner Denver (a part of Ingersoll Rand)

Hitachi Industrial Equipment Systems Co., Ltd.

Siemens Energy AG

Haskel International, LLC (an Ingersoll Rand brand)

## ELGI Equipments Limited

### Report Scope:

In this report, the Global Booster Compressor Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

#### Booster Compressor Market, By Type:

Single Stage Booster Compressor

Double Stage Booster Compressor

Multi-Stage Booster Compressor

#### Booster Compressor Market, By Power Source:

Electric Driven

Diesel Driven

Gas Driven

#### Booster Compressor Market, By End-Use Industry:

Oil and Gas

Power Generation

Chemical and Petrochemical

Manufacturing

Automotive

Food and Beverage

Aerospace

Others

### Booster Compressor Market, By Region:

North America

United States

Canada

Mexico

Europe

Germany

France

United Kingdom

Italy

Spain

South America

Brazil

Argentina

Colombia

Asia-Pacific

China

India

Japan

South Korea

Australia

Middle East & Africa

Saudi Arabia

UAE

South Africa

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Booster Compressor Market.

## Available Customizations:

Global Booster Compressor Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

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