

Air Compressor Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

Market Report | 2023-10-15 | 142 pages | IMARC Group

AVAILABLE LICENSES:

- Electronic (PDF) Single User \$2499.00
- Five User Licence \$3499.00
- Enterprisewide License \$4499.00

Report description:

Market Overview:

The global air compressor market size reached US\$ 17.8 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 22.7 Billion by 2028, exhibiting a growth rate (CAGR) of 3.76% during 2023-2028. The increasing industrial applications, emphasis on energy efficiency, growing adoption of automation and pneumatic systems, and significant advancements in IoT and smart technologies are some of the major factors propelling the market.

An air compressor refers to a type of mechanical device that converts power from an electric motor or gasoline engine into potential energy stored in compressed air. It is designed to increase the air pressure, leading to the compression of gases. These compressors are utilized in various industries for tasks such as powering pneumatic tools, filling gas cylinders, and providing a continuous supply of compressed air for machinery. They play a vital role in facilitating processes that require high-pressure air, making them essential for diverse applications in manufacturing, construction, automotive, and other sectors.

The increasing demand for compressed air in various industrial applications, such as manufacturing, oil and gas, automotive, and construction, represents one of the key factors fueling the market growth. Besides this, the rising need for efficient power tools and equipment that rely on compressed air for operation is propelling the market growth. Moreover, the rising focus on energy efficiency and sustainable practices is urging manufacturers to develop advanced air compressors that consume less power and reduce carbon emissions, thereby strengthening the market growth. In addition to this, the expanding adoption of automation across various industries is driving the employment of pneumatic systems, thereby boosting the demand for air compressors. Furthermore, rapid industrialization in emerging economies and the expansion of the manufacturing sector are creating lucrative opportunities for air compressor providers.

Air Compressor Market Trends/Drivers:

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Increasing industrial applications

One of the key factors driving the air compressor market growth is the rising demand for compressed air in various industrial applications. Industries such as manufacturing, oil and gas, automotive, construction, and mining heavily rely on compressed air for a wide range of processes, which, in turn, is creating a positive outlook for market expansion. In addition to this, the surging need for compressed air to power pneumatic tools and equipment, control valves, and operate conveyor systems is presenting remunerative growth opportunities for the market. As industrial activities continue to expand and diversify globally, the demand for air compressors is steadily increasing.

Rising emphasis on energy efficiency

With growing concerns about environmental sustainability and energy conservation, there is a strong emphasis on developing energy-efficient solutions in the industrial sector. Air compressors, being power-hungry devices, have drawn attention to their energy consumption. In response, manufacturers are focusing on the design and development of energy-efficient air compressors that minimize power usage and reduce carbon emissions, thereby contributing to the market's growth. Furthermore, these energy-efficient models not only help industries meet their sustainability goals but also result in cost savings for end-users, making them an attractive choice.

Expanding automation and rising demand for pneumatic systems

The rising adoption of automation in various industries is another crucial factor driving the air compressor market. Automated systems rely on pneumatic components and controls that require compressed air to function effectively. As a result, with expanding automation, there is a surging demand for air compressors as a reliable source of compressed air, which, in turn, is acting as another significant growth-inducing factor. Concurrent with this, the shifting consumer preference for pneumatic systems in industries due to their safety, versatility, and ease of maintenance is bolstering the demand for air compressors.

Air Compressor Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global air compressor market report, along with forecasts at the global, regional and country levels from 2023-2028. Our report has categorized the market based on type, technology, lubrication method, power rating and end user.

Breakup by Type:

Portable
Stationary

Stationary dominates the market

The report has provided a detailed breakup and analysis of the market based on the type. This includes portable and stationary. According to the report, stationary represented the largest segment.

The demand for stationary air compressors is being propelled by their suitability for long-term and continuous applications in various industries. Unlike portable compressors, stationary models are installed in fixed locations and provide a constant and reliable supply of compressed air, which propels their adoption. Moreover, they are highly preferred for tasks that require a consistent source of compressed air, such as powering industrial machinery, pneumatic systems, and assembly lines. In addition to this, stationary compressors often have higher capacity and efficiency, making them well-suited for heavy-duty applications and contributing to their increasing demand in industrial settings.

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Breakup by Technology:

Reciprocating/Piston

Rotary/Screw

Centrifugal

Rotary/screw holds the largest share in the market

A detailed breakup and analysis of the market based on technology has also been provided in the report. This includes reciprocating/piston, rotary/screw, and centrifugal. According to the report, rotary/screw accounted for the largest market share.

The surging demand for rotary/screw air compressors can be attributed to their high efficiency and reliability in meeting industrial compressed air requirements. Additionally, these compressors utilize a continuous rotary motion, resulting in smooth and pulsation-free air delivery, making them ideal for applications demanding constant air pressure. Moreover, their ability to operate continuously without the need for frequent starts and stops improves overall energy efficiency and reduces maintenance costs, thus aiding in market expansion. Besides this, rotary/screw air compressors are favored in industries where a steady supply of compressed air is essential, such as manufacturing, food processing, pharmaceuticals, and automotive, further driving their demand in the market.

Breakup by Lubrication Method:

Oil-filled

Oil-free

Oil-filled dominates the market

The report has provided a detailed breakup and analysis of the market based on the lubrication method. This includes oil-filled and oil-free. According to the report, oil-filled represented the largest segment.

The expanding demand for oil-filled air compressors driven by their superior performance in heavy-duty and high-pressure applications is strengthening the market growth. These compressors use oil as a lubricant, which not only reduces friction but also helps dissipate heat effectively, ensuring smooth and efficient operation even under demanding conditions. Moreover, the presence of oil provides better sealing between components, leading to improved efficiency and a longer lifespan. Consequently, industries requiring consistent and high-pressure compressed air, such as construction, mining, and manufacturing, are increasingly opting for oil-filled air compressors for their reliability and ability to withstand rigorous working environments.

Breakup by Power Rating:

0-100 kW

101-300 kW

301-500 kW

501 kW and Above

101-300 kW holds the largest share in the market

A detailed breakup and analysis of the market based on the power rating has also been provided in the report. This includes 0-100

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

kW, 101-300 kW, 301-500 kW, and 501 kW and above. According to the report, 101-300 kW accounted for the largest market share.

The demand for 101-300 kW air compressors is being propelled by their ability to cater to medium to large-scale industrial operations with higher compressed air requirements. These powerful compressors offer greater capacity and efficiency, making them suitable for heavy-duty applications in industries such as mining, petrochemicals, and steel manufacturing. As these sectors continue to expand, the need for reliable and high-performance air compressors in the specified power range has increased, contributing to the market's growth. In addition to this, significant advancements in technology have led to more energy-efficient models, further boosting the demand for 101-300 kW air compressors among businesses seeking cost-effective and sustainable solutions.

Breakup by End User:

- Manufacturing
- Semiconductors and Electronics
- Food and Beverages
- Healthcare/Medical
- Home Appliances
- Energy
- Oil and Gas
- Others

The report has provided a detailed breakup and analysis of the market based on the end user. This includes manufacturing, semiconductors and electronics, food and beverages, healthcare/medical, home appliances, energy, oil and gas, and others.

Air compressors' versatility and critical role in diverse applications primarily drive their demand across manufacturing, semiconductors and electronics, food and beverages, healthcare/medical, home appliances, energy, oil, and gas industries. In manufacturing, air compressors enable efficient production processes by powering pneumatic tools and equipment. They supply clean air and are used in precision applications in the semiconductors and electronics industry. They assist in packaging and processing in the food and beverages industry. In healthcare/medical, air compressors support medical device operations. They are utilized in air conditioning and refrigeration units in home appliances. In the energy, oil, and gas sectors, air compressors facilitate various drilling, transportation, and processing tasks, marking them as essential equipment for these industries.

Breakup by Region:

- North America
- United States
- Canada
- Asia-Pacific
- China
- Japan
- India
- South Korea
- Australia
- Indonesia
- Others
- Europe

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Asia-Pacific exhibits a clear dominance, accounting for the largest air compressor market share

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Asia-Pacific accounted for the largest market share.

The demand for air compressors in the Asia Pacific region is being propelled by rapid industrialization and infrastructural development. Moreover, as the region witnesses significant economic growth, various industries such as manufacturing, construction, automotive, and electronics are expanding their operations. This, in turn, leads to an increasing need for compressed air to power pneumatic machinery, tools, and equipment. Apart from this, the growing focus on energy efficiency and sustainability in emerging economies such as China and India is driving the adoption of advanced air compressors that offer higher efficiency and reduced carbon emissions, further fueling the demand in the Asia Pacific air compressor market.

Competitive Landscape:

The global air compressor market is distinguished by a highly competitive landscape with numerous key players vying for market share. Established companies continuously invest in research and development to introduce innovative and energy-efficient air compressor solutions, catering to various industries and customer needs. Besides the major players, there is also a presence of numerous regional and local manufacturers offering cost-effective air compressor solutions, particularly in emerging economies. These companies often focus on specific market segments or niche applications to gain a competitive edge. Besides this, technological advancements, such as the integration of IoT and smart technologies in air compressors, are reshaping the competitive landscape. Market competition is also driven by factors like product pricing, after-sales service, warranty, and customer support.

The report has provided a comprehensive analysis of the competitive landscape in the market. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

Atlas Copco AB
Bauer Compressors Inc.
Berkshire Hathaway Inc.
Ciasons Industrial Inc.
Desran Compressor (Shanghai) Co. Ltd
Doosan Corporation
ELGi Equipments Limited

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Hitachi Ltd.
Ingersoll Rand Inc. (Trane Technologies plc)
Rolair Systems
Suzler Ltd.

Recent Developments:

In July 2023, Atlas Copco announced the acquisition of cryopump service provider and distributor of ZEUS Co., Ltd. that provides service and sales distribution for the Vacuum Technique business area's CTI and Polycold products in South Korea.

In July 2023, Doosan Enerbility announced a collaboration agreement with Johnson Matthey (JM), a UK-based company specializing in ammonia cracking solutions, on pursuing joint research in the ammonia cracking business.

In April 2023, Bauer Compressors Inc. announced the launch of three new K22, BK 23, and BM series, featuring directly coupled units, representing the perfect synthesis of performance and compact design.

Key Questions Answered in This Report

1. What was the size of the global air compressor market in 2022?
2. What is the expected growth rate of the global air compressor market during 2023-2028?
3. What has been the impact of COVID-19 on the global air compressor market?
4. What are the key factors driving the global air compressor market?
5. What is the breakup of the global air compressor market based on the type?
6. What is the breakup of the global air compressor market based on the technology?
7. What is the breakup of the global air compressor market based on the lubrication method?
8. What is the breakup of the global air compressor market based on the power rating?
9. What are the key regions in the global air compressor market?
10. Who are the key players/companies in the global air compressor market?

Table of Contents:

- 1 Preface
- 2 Scope and Methodology
 - 2.1 Objectives of the Study
 - 2.2 Stakeholders
 - 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
 - 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
 - 2.5 Forecasting Methodology
- 3 Executive Summary
- 4 Introduction
 - 4.1 Overview
 - 4.2 Key Industry Trends
- 5 Global Air Compressor Market
 - 5.1 Market Overview
 - 5.2 Market Performance
 - 5.3 Impact of COVID-19
 - 5.4 Market Forecast

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 6 Market Breakup by Type
 - 6.1 Portable
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
 - 6.2 Stationary
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 7 Market Breakup by Technology
 - 7.1 Reciprocating/Piston
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
 - 7.2 Rotary/Screw
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
 - 7.3 Centrifugal
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
- 8 Market Breakup by Lubrication Method
 - 8.1 Oil-filled
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
 - 8.2 Oil-free
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast
- 9 Market Breakup by Power Rating
 - 9.10-100 kW
 - 9.1.1 Market Trends
 - 9.1.2 Market Forecast
 - 9.2101-300 kW
 - 9.2.1 Market Trends
 - 9.2.2 Market Forecast
 - 9.3301-500 kW
 - 9.3.1 Market Trends
 - 9.3.2 Market Forecast
 - 9.4501 kW and Above
 - 9.4.1 Market Trends
 - 9.4.2 Market Forecast
- 10 Market Breakup by End User
 - 10.1 Manufacturing
 - 10.1.1 Market Trends
 - 10.1.2 Market Forecast
 - 10.2 Semiconductors and Electronics
 - 10.2.1 Market Trends
 - 10.2.2 Market Forecast
 - 10.3 Food and Beverages
 - 10.3.1 Market Trends
 - 10.3.2 Market Forecast

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 10.4Healthcare/Medical
 - 10.4.1 Market Trends
 - 10.4.2 Market Forecast
- 10.5Home Appliances
 - 10.5.1 Market Trends
 - 10.5.2 Market Forecast
- 10.6Energy
 - 10.6.1 Market Trends
 - 10.6.2 Market Forecast
- 10.7Oil and Gas
 - 10.7.1 Market Trends
 - 10.7.2 Market Forecast
- 10.8Others
 - 10.8.1 Market Trends
 - 10.8.2 Market Forecast
- 11 Market Breakup by Region
 - 11.1North America
 - 11.1.1 United States
 - 11.1.1.1 Market Trends
 - 11.1.1.2 Market Forecast
 - 11.1.2 Canada
 - 11.1.2.1 Market Trends
 - 11.1.2.2 Market Forecast
 - 11.2Asia-Pacific
 - 11.2.1 China
 - 11.2.1.1 Market Trends
 - 11.2.1.2 Market Forecast
 - 11.2.2 Japan
 - 11.2.2.1 Market Trends
 - 11.2.2.2 Market Forecast
 - 11.2.3 India
 - 11.2.3.1 Market Trends
 - 11.2.3.2 Market Forecast
 - 11.2.4 South Korea
 - 11.2.4.1 Market Trends
 - 11.2.4.2 Market Forecast
 - 11.2.5 Australia
 - 11.2.5.1 Market Trends
 - 11.2.5.2 Market Forecast
 - 11.2.6 Indonesia
 - 11.2.6.1 Market Trends
 - 11.2.6.2 Market Forecast
 - 11.2.7 Others
 - 11.2.7.1 Market Trends
 - 11.2.7.2 Market Forecast
 - 11.3Europe
 - 11.3.1 Germany

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 11.3.1.1 Market Trends
- 11.3.1.2 Market Forecast
- 11.3.2 France
 - 11.3.2.1 Market Trends
 - 11.3.2.2 Market Forecast
- 11.3.3 United Kingdom
 - 11.3.3.1 Market Trends
 - 11.3.3.2 Market Forecast
- 11.3.4 Italy
 - 11.3.4.1 Market Trends
 - 11.3.4.2 Market Forecast
- 11.3.5 Spain
 - 11.3.5.1 Market Trends
 - 11.3.5.2 Market Forecast
- 11.3.6 Russia
 - 11.3.6.1 Market Trends
 - 11.3.6.2 Market Forecast
- 11.3.7 Others
 - 11.3.7.1 Market Trends
 - 11.3.7.2 Market Forecast
- 11.4 Latin America
 - 11.4.1 Brazil
 - 11.4.1.1 Market Trends
 - 11.4.1.2 Market Forecast
 - 11.4.2 Mexico
 - 11.4.2.1 Market Trends
 - 11.4.2.2 Market Forecast
 - 11.4.3 Others
 - 11.4.3.1 Market Trends
 - 11.4.3.2 Market Forecast
- 11.5 Middle East and Africa
 - 11.5.1 Market Trends
 - 11.5.2 Market Breakup by Country
 - 11.5.3 Market Forecast
- 12 SWOT Analysis
 - 12.1 Overview
 - 12.2 Strengths
 - 12.3 Weaknesses
 - 12.4 Opportunities
 - 12.5 Threats
- 13 Value Chain Analysis
- 14 Porters Five Forces Analysis
 - 14.1 Overview
 - 14.2 Bargaining Power of Buyers
 - 14.3 Bargaining Power of Suppliers
 - 14.4 Degree of Competition
 - 14.5 Threat of New Entrants

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 14.6Threat of Substitutes
- 15 Price Analysis
- 16 Competitive Landscape
- 16.1Market Structure
- 16.2Key Players
- 16.3Profiles of Key Players
- 16.3.1Atlas Copco AB
 - 16.3.1.1 Company Overview
 - 16.3.1.2 Product Portfolio
 - 16.3.1.3 Financials
 - 16.3.1.4 SWOT Analysis
- 16.3.2Bauer Compressors Inc.
 - 16.3.2.1 Company Overview
 - 16.3.2.2 Product Portfolio
- 16.3.3Berkshire Hathaway Inc.
 - 16.3.3.1 Company Overview
 - 16.3.3.2 Product Portfolio
 - 16.3.3.3 Financials
 - 16.3.3.4 SWOT Analysis
- 16.3.4Ciasons Industrial Inc.
 - 16.3.4.1 Company Overview
 - 16.3.4.2 Product Portfolio
- 16.3.5Desran Compressor (Shanghai) Co. Ltd
 - 16.3.5.1 Company Overview
 - 16.3.5.2 Product Portfolio
- 16.3.6Doosan Corporation
 - 16.3.6.1 Company Overview
 - 16.3.6.2 Product Portfolio
 - 16.3.6.3 Financials
- 16.3.7ELGi Equipments Limited
 - 16.3.7.1 Company Overview
 - 16.3.7.2 Product Portfolio
 - 16.3.7.3 Financials
- 16.3.8Hitachi Ltd.
 - 16.3.8.1 Company Overview
 - 16.3.8.2 Product Portfolio
 - 16.3.8.3 Financials
 - 16.3.8.4 SWOT Analysis
- 16.3.9Ingersoll Rand Inc. (Trane Technologies plc)
 - 16.3.9.1 Company Overview
 - 16.3.9.2 Product Portfolio
 - 16.3.9.3 Financials
 - 16.3.9.4 SWOT Analysis
- 16.3.10Rolair Systems
 - 16.3.10.1 Company Overview
 - 16.3.10.2 Product Portfolio
- 16.3.11Suzler Ltd

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 16.3.11.1 Company Overview
- 16.3.11.2 Product Portfolio

Air Compressor Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

Market Report | 2023-10-15 | 142 pages | IMARC Group

To place an Order with Scotts International:

- ☐ - Print this form
- ☐ - Complete the relevant blank fields and sign
- ☐ - Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Electronic (PDF) Single User	\$2499.00
	Five User Licence	\$3499.00
	Enterprisewide License	\$4499.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

☐ ** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2025-06-25"/>
		Signature	

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com



Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com
www.scotts-international.com