

Global Oil-Free Industrial Gas 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 Oil-Free Industrial Gas Compressor market size was valued at US\$ 1296 million in 2025 and is forecast to a readjusted size of US\$ 1901 million by 2032 with a CAGR of 5.4% during review period.

Oil-Free Industrial Gas Compressor refers to oil-free gas compression equipment used for the production, storage, filling, transfer, recovery and on-site supply of industrial gases. Its compression chamber or gas path does not come into direct contact with lubricating oil, and clean gas compression is achieved through oil-free piston, diaphragm, dry screw, labyrinth-sealed or centrifugal configurations. The product mainly handles nitrogen, oxygen, argon, helium, carbon dioxide, industrial hydrogen and mixed inert gases, and is typically supplied as a bare compressor, skid-mounted package, gas booster system, cylinder-filling compressor or auxiliary compressor for on-site gas generation systems. It is widely used in air separation, PSA/VPSA oxygen and nitrogen generation, gas cylinder filling, food and beverage, metal processing, electronics manufacturing, medical gas supply, welding and cutting, laboratory gas systems and industrial inerting. Major production bases are concentrated in the United States, Germany, Switzerland, Sweden, Japan, China, India and South Korea, with competition focused on gas cleanliness, oxygen compatibility, leakage control, pressure stability, material safety, continuous-duty reliability and system integration capability.

In 2025, global Oil-Free Industrial Gas Compressor production reached approximately 8,800-10,500 units. On an ex-works basis for core compressors and skid-mounted gas booster systems, the global weighted-average FOB price was approximately USD 115,000-145,000 per unit. Nitrogen and oxygen boosting, cylinder filling and auxiliary compressors for on-site gas generation contributed the majority of shipment volume,

while high-pressure oxygen, helium recovery, high-purity specialty gas and industrial hydrogen compression systems contributed higher revenue per unit. Actual transaction prices were mainly determined by gas medium, discharge pressure, flow rate, cleanliness grade, oxygen-compatible design, explosion-proof requirements, material grade, cooling method and control system configuration.

Driven by manufacturing upgrades, rising demand for high-purity gases, wider adoption of on-site gas generation systems and the expansion of semiconductor, medical, food and beverage, metal processing and new energy industries, Oil-Free Industrial Gas Compressors are extending from traditional cylinder filling and air separation support equipment to higher-value applications such as distributed oxygen and nitrogen generation, high-purity gas transfer, industrial inerting, carbon dioxide recovery and specialty gas boosting. Compared with oil-lubricated compression equipment, oil-free compression reduces the risks of oil contamination, oxygen-related safety issues, gas purity fluctuation and downstream product quality variation, giving it higher entry barriers in oxygen, nitrogen, helium, electronic-grade gas and food/medical gas applications. As global industrial gas consumption continues to expand, industrial users' demand for stable gas supply, on-site gas generation and gas recovery will support steady growth in medium- and small-sized oil-free reciprocating, diaphragm and skid-mounted gas booster systems.

The main market challenges come from wide price dispersion, fragmented applications, strict oxygen compression safety requirements, long certification cycles for materials and seals, and intensified competition in low- and medium-pressure standard models. Low-pressure nitrogen boosting, conventional cylinder filling and small on-site gas generation packages are relatively price-transparent, while high-pressure oxygen, helium recovery, high-purity electronic gases and industrial hydrogen compression systems require higher standards for material cleanliness, oil-free sealing, explosion-proof control, leakage rate and system interlocks. Future demand will continue shifting toward higher purity, modularization, low leakage, intelligent monitoring and energy-saving operation. Asia and North America will remain the main regions for new installations, while Europe and Japan will focus more on replacement demand, high-purity application upgrades and low-carbon gas recovery projects.

This report is a detailed and comprehensive analysis for global Oil-Free Industrial Gas 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 Oil-Free Industrial Gas Compressor market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Oil-Free Industrial Gas Compressor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Oil-Free Industrial Gas Compressor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Oil-Free Industrial Gas Compressor market shares of main players, shipments in revenue (\$ Million), sales quantity (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 Oil-Free Industrial Gas 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 Oil-Free Industrial Gas 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 AB, Burckhardt Compression AG, J.P. Sauer & Sohn Maschinenbau GmbH, NEUMAN & ESSER GROUP, MAXIMATOR GmbH, SIAD Macchine Impianti S.p.A., Chart Industries, Inc., Honeywell International Inc., RIX Industries, PDC Machines, LLC, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Oil-Free Industrial Gas 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 segment by Type

- Oil Free Reciprocating Compressor

- Centrifugal Compressor

- Dry Screw Compressor

- Others

Market segment by Gas Medium

- Oxygen

- Nitrogen and Inert Gases

- Carbon Dioxide and Helium

- Others

Market segment by Pressure Class

- Low Pressure

- Medium Pressure

High Pressure

Ultra High Pressure

Market segment by Flow Capacity

Small Flow

Medium Flow

Large Flow

Market segment by Application

Industrial Gas Production

Electronics and Semiconductor

Food Beverage and Medical

Others

Major players covered

Atlas Copco AB

Burckhardt Compression AG

J.P. Sauer & Sohn Maschinenbau GmbH

NEUMAN & ESSER GROUP

MAXIMATOR GmbH

SIAD Macchine Impianti S.p.A.

Chart Industries, Inc.

Honeywell International Inc.

RIX Industries

PDC Machines, LLC

Fluitron, Inc.

Ingersoll Rand Inc.

Kobe Steel, Ltd.

Hanwha Power Co., Ltd.

Fusheng Industrial Co., Ltd.

Kirloskar Pneumatic Company Limited

Indian Compressors Ltd.

Xuzhou Huayan Gas Equipment Co., Ltd.

Anqing Bailian Oil Free Compressor Co., Ltd.

Bengbu Hongshen Special Gas Compressor Manufactory

BROTIE Technology Company Limited

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)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Oil-Free Industrial Gas Compressor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Oil-Free Industrial Gas Compressor, with price, sales quantity, revenue, and global market share of Oil-Free Industrial Gas Compressor from 2021 to 2026.

Chapter 3, the Oil-Free Industrial Gas Compressor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Oil-Free Industrial Gas 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 Oil-Free Industrial Gas 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 Oil-Free Industrial Gas Compressor.

Chapter 14 and 15, to describe Oil-Free Industrial Gas Compressor sales channel, distributors, customers, research findings and conclusion.

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