

Process Gas Compressors Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented, By Type (Oil Injected, Oil-Free), By End-User (Oil & Gas, Chemicals, Power Generation, Industrial Gases, Others), By Region, By Competition, 2020-2030F

https://marketpublishers.com/r/P732E7840545EN.html

Date: May 2025

Pages: 180

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

ID: P732E7840545EN

## **Abstracts**

#### **Market Overview**

The Global Process Gas Compressors Market was valued at USD 7.98 Billion in 2024 and is projected to reach USD 11.27 Billion by 2030, growing at a CAGR of 5.77%. Process gas compressors play a critical role in industrial applications where gases like hydrogen, carbon dioxide, and natural gas must be compressed for efficient storage, transport, or processing. These compressors are widely deployed in industries such as oil & gas, chemicals, power generation, and industrial manufacturing, where operational efficiency, reliability, and system safety are paramount. As global industries increasingly focus on reducing carbon footprints and improving energy efficiency, the demand for advanced compression systems is accelerating.

The market's expansion is being propelled by rising investments in industrial automation, cleaner energy infrastructure, and hydrogen-based technologies. Modern compressors are equipped with features like variable speed drives, smart sensors, and predictive maintenance capabilities that align with the broader goals of digitalization and sustainability. However, the industry faces challenges related to technological complexity and high maintenance requirements, particularly for systems operating in harsh or remote environments. Despite these challenges, the market is expected to benefit from increasing demand for hydrogen infrastructure, smart industrial processes,



and stringent efficiency standards across key sectors.

## **Key Market Drivers**

Growing Demand for Industrial Automation and Efficiency

As industries worldwide seek to enhance process optimization and energy efficiency, process gas compressors are increasingly integral to modern industrial infrastructure. Equipped with intelligent control systems and high-efficiency designs, these compressors help reduce energy consumption, improve operational stability, and ensure the safety of complex processes. The trend is especially strong in sectors with high energy demand and safety-critical operations, such as oil & gas and petrochemicals, where automation is central to maintaining productivity and compliance.

## **Key Market Challenges**

Technological Complexity and Maintenance Challenges

The sophisticated nature of modern process gas compressors presents operational challenges due to the need for specialized maintenance and skilled personnel. High-performance compressors often require frequent inspections and part replacements—such as rotors and seals—especially in extreme-pressure environments. The associated downtime, cost of spare parts, and lack of skilled technicians in certain regions further increase the burden on industrial operators, particularly those working in remote or less-developed areas.

## **Key Market Trends**

Increasing Demand for Hydrogen Infrastructure and Its Impact on Process Gas Compressors

The global transition toward hydrogen as a clean energy source is creating new opportunities for process gas compressors. Compressors are essential for pressurizing hydrogen for use in fueling stations, pipelines, ammonia production, and other hydrogen-based processes. This trend is especially strong in regions implementing national hydrogen strategies, including Europe, Japan, South Korea, and the U.S. Manufacturers are innovating with hydrogen-compatible compressor systems that address material compatibility and high-pressure performance needs, supporting the long-term growth of the hydrogen economy.



# **Key Market Players**

Siemens AG
Atlas Copco AB
General Electric Company
Ingersoll Rand Inc.
MAN Energy Solutions SE
Hitachi Ltd.
Burckhardt Compression AG
Gardner Denver Holdings Inc.
Dresser-Rand Group Inc.
Kobelco Compressors America Inc.
Report Scope
In this report, the Global Process Gas Compressors Market has been segmented into the following categories, in addition to the industry trends:
Process Gas Compressors Market, By Type:
Oil Injected
Oil-Free



Process Gas Compressors	Market, By End-User:
Oil & Gas	
Chemicals	
Power Generation	
Industrial Gases	
Others	
Process Gas Compressors	Market, By Region:
North America	
United States	
Canada	
Mexico	
Europe	
France	
United Kingdom	
Italy	
Germany	
Spain	



Asia-Pac	sific
С	China
In	ndia
Ja	apan
А	ustralia
S	South Korea
South An	merica
В	Brazil
А	argentina
С	Colombia
Middle Ea	ast & Africa
S	South Africa
S	Saudi Arabia
U	JAE
K	Cuwait



## Turkey

## **Competitive Landscape**

Company Profiles: Detailed analysis of the major companies present in the Global Process Gas Compressors Market.

**Available Customizations** 

Global Process Gas Compressors 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).



## **Contents**

#### 1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
  - 1.2.1. Markets Covered
  - 1.2.2. Years Considered for Study
- 1.3. Key Market Segmentations

#### 2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Formulation of the Scope
- 2.4. Assumptions and Limitations
- 2.5. Sources of Research
  - 2.5.1. Secondary Research
  - 2.5.2. Primary Research
- 2.6. Approach for the Market Study
  - 2.6.1. The Bottom-Up Approach
  - 2.6.2. The Top-Down Approach
- 2.7. Methodology Followed for Calculation of Market Size & Market Shares
- 2.8. Forecasting Methodology
  - 2.8.1. Data Triangulation & Validation

#### 3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, and Trends

## 4. VOICE OF CUSTOMER

## 5. GLOBAL PROCESS GAS COMPRESSORS MARKET OUTLOOK

5.1. Market Size & Forecast



- 5.1.1. By Value
- 5.2. Market Share & Forecast
  - 5.2.1. By Type (Oil Injected, Oil-Free)
- 5.2.2. By End-User (Oil & Gas, Chemicals, Power Generation, Industrial Gases, Others)
  - 5.2.3. By Region
- 5.3. By Company (2024)
- 5.4. Market Map

#### 6. NORTH AMERICA PROCESS GAS COMPRESSORS MARKET OUTLOOK

- 6.1. Market Size & Forecast
  - 6.1.1. By Value
- 6.2. Market Share & Forecast
  - 6.2.1. By Type
  - 6.2.2. By End-User
  - 6.2.3. By Country
- 6.3. North America: Country Analysis
  - 6.3.1. United States Process Gas Compressors Market Outlook
    - 6.3.1.1. Market Size & Forecast
      - 6.3.1.1.1. By Value
    - 6.3.1.2. Market Share & Forecast
      - 6.3.1.2.1. By Type
      - 6.3.1.2.2. By End-User
  - 6.3.2. Canada Process Gas Compressors Market Outlook
    - 6.3.2.1. Market Size & Forecast
      - 6.3.2.1.1. By Value
    - 6.3.2.2. Market Share & Forecast
      - 6.3.2.2.1. By Type
      - 6.3.2.2.2. By End-User
  - 6.3.3. Mexico Process Gas Compressors Market Outlook
    - 6.3.3.1. Market Size & Forecast
      - 6.3.3.1.1. By Value
    - 6.3.3.2. Market Share & Forecast
      - 6.3.3.2.1. By Type
      - 6.3.3.2.2. By End-User

#### 7. EUROPE PROCESS GAS COMPRESSORS MARKET OUTLOOK



- 7.1. Market Size & Forecast
  - 7.1.1. By Value
- 7.2. Market Share & Forecast
  - 7.2.1. By Type
  - 7.2.2. By End-User
  - 7.2.3. By Country
- 7.3. Europe: Country Analysis
  - 7.3.1. Germany Process Gas Compressors Market Outlook
    - 7.3.1.1. Market Size & Forecast
      - 7.3.1.1.1. By Value
    - 7.3.1.2. Market Share & Forecast
      - 7.3.1.2.1. By Type
    - 7.3.1.2.2. By End-User
  - 7.3.2. United Kingdom Process Gas Compressors Market Outlook
    - 7.3.2.1. Market Size & Forecast
      - 7.3.2.1.1. By Value
    - 7.3.2.2. Market Share & Forecast
      - 7.3.2.2.1. By Type
      - 7.3.2.2.2. By End-User
  - 7.3.3. Italy Process Gas Compressors Market Outlook
    - 7.3.3.1. Market Size & Forecast
      - 7.3.3.1.1. By Value
  - 7.3.3.2. Market Share & Forecast
    - 7.3.3.2.1. By Type
    - 7.3.3.2.2. By End-User
  - 7.3.4. France Process Gas Compressors Market Outlook
    - 7.3.4.1. Market Size & Forecast
      - 7.3.4.1.1. By Value
    - 7.3.4.2. Market Share & Forecast
      - 7.3.4.2.1. By Type
      - 7.3.4.2.2. By End-User
  - 7.3.5. Spain Process Gas Compressors Market Outlook
    - 7.3.5.1. Market Size & Forecast
      - 7.3.5.1.1. By Value
    - 7.3.5.2. Market Share & Forecast
      - 7.3.5.2.1. By Type
      - 7.3.5.2.2. By End-User

#### 8. ASIA-PACIFIC PROCESS GAS COMPRESSORS MARKET OUTLOOK



- 8.1. Market Size & Forecast
  - 8.1.1. By Value
- 8.2. Market Share & Forecast
  - 8.2.1. By Type
  - 8.2.2. By End-User
  - 8.2.3. By Country
- 8.3. Asia-Pacific: Country Analysis
  - 8.3.1. China Process Gas Compressors Market Outlook
    - 8.3.1.1. Market Size & Forecast
      - 8.3.1.1.1. By Value
    - 8.3.1.2. Market Share & Forecast
      - 8.3.1.2.1. By Type
      - 8.3.1.2.2. By End-User
  - 8.3.2. India Process Gas Compressors Market Outlook
    - 8.3.2.1. Market Size & Forecast
      - 8.3.2.1.1. By Value
    - 8.3.2.2. Market Share & Forecast
      - 8.3.2.2.1. By Type
      - 8.3.2.2.2. By End-User
  - 8.3.3. Japan Process Gas Compressors Market Outlook
    - 8.3.3.1. Market Size & Forecast
      - 8.3.3.1.1. By Value
    - 8.3.3.2. Market Share & Forecast
      - 8.3.3.2.1. By Type
      - 8.3.3.2.2. By End-User
  - 8.3.4. South Korea Process Gas Compressors Market Outlook
    - 8.3.4.1. Market Size & Forecast
      - 8.3.4.1.1. By Value
    - 8.3.4.2. Market Share & Forecast
      - 8.3.4.2.1. By Type
      - 8.3.4.2.2. By End-User
  - 8.3.5. Australia Process Gas Compressors Market Outlook
    - 8.3.5.1. Market Size & Forecast
      - 8.3.5.1.1. By Value
    - 8.3.5.2. Market Share & Forecast
      - 8.3.5.2.1. By Type
      - 8.3.5.2.2. By End-User



#### 9. SOUTH AMERICA PROCESS GAS COMPRESSORS MARKET OUTLOOK

	9	1.	Market	Size	ጼ	<b>Forecas</b>
--	---	----	--------	------	---	----------------

- 9.1.1. By Value
- 9.2. Market Share & Forecast
  - 9.2.1. By Type
  - 9.2.2. By End-User
  - 9.2.3. By Country
- 9.3. South America: Country Analysis
  - 9.3.1. Brazil Process Gas Compressors Market Outlook
    - 9.3.1.1. Market Size & Forecast
      - 9.3.1.1.1. By Value
    - 9.3.1.2. Market Share & Forecast
      - 9.3.1.2.1. By Type
    - 9.3.1.2.2. By End-User
  - 9.3.2. Argentina Process Gas Compressors Market Outlook
    - 9.3.2.1. Market Size & Forecast
      - 9.3.2.1.1. By Value
    - 9.3.2.2. Market Share & Forecast
      - 9.3.2.2.1. By Type
      - 9.3.2.2.2. By End-User
  - 9.3.3. Colombia Process Gas Compressors Market Outlook
    - 9.3.3.1. Market Size & Forecast
      - 9.3.3.1.1. By Value
    - 9.3.3.2. Market Share & Forecast
      - 9.3.3.2.1. By Type
      - 9.3.3.2.2. By End-User

# 10. MIDDLE EAST AND AFRICA PROCESS GAS COMPRESSORS MARKET OUTLOOK

- 10.1. Market Size & Forecast
  - 10.1.1. By Value
- 10.2. Market Share & Forecast
  - 10.2.1. By Type
  - 10.2.2. By End-User
  - 10.2.3. By Country
- 10.3. Middle East and Africa: Country Analysis
- 10.3.1. South Africa Process Gas Compressors Market Outlook



10.3.1.1. Market Size & Forecast

10.3.1.1.1. By Value

10.3.1.2. Market Share & Forecast

10.3.1.2.1. By Type

10.3.1.2.2. By End-User

10.3.2. Saudi Arabia Process Gas Compressors Market Outlook

10.3.2.1. Market Size & Forecast

10.3.2.1.1. By Value

10.3.2.2. Market Share & Forecast

10.3.2.2.1. By Type

10.3.2.2.2. By End-User

10.3.3. UAE Process Gas Compressors Market Outlook

10.3.3.1. Market Size & Forecast

10.3.3.1.1. By Value

10.3.3.2. Market Share & Forecast

10.3.3.2.1. By Type

10.3.3.2.2. By End-User

10.3.4. Kuwait Process Gas Compressors Market Outlook

10.3.4.1. Market Size & Forecast

10.3.4.1.1. By Value

10.3.4.2. Market Share & Forecast

10.3.4.2.1. By Type

10.3.4.2.2. By End-User

10.3.5. Turkey Process Gas Compressors Market Outlook

10.3.5.1. Market Size & Forecast

10.3.5.1.1. By Value

10.3.5.2. Market Share & Forecast

10.3.5.2.1. By Type

10.3.5.2.2. By End-User

## 11. MARKET DYNAMICS

11.1. Drivers

11.2. Challenges

#### 12. MARKET TRENDS & DEVELOPMENTS

12.1. Merger & Acquisition (If Any)

12.2. Product Launches (If Any)



## 12.3. Recent Developments

#### 13. COMPANY PROFILES

- 13.1. Siemens AG
  - 13.1.1. Business Overview
  - 13.1.2. Key Revenue and Financials
  - 13.1.3. Recent Developments
  - 13.1.4. Key Personnel/Key Contact Person
  - 13.1.5. Key Product/Services Offered
- 13.2. Atlas Copco AB
- 13.3. General Electric Company
- 13.4. Ingersoll Rand Inc.
- 13.5. MAN Energy Solutions SE
- 13.6. Hitachi Ltd.
- 13.7. Burckhardt Compression AG
- 13.8. Gardner Denver Holdings Inc.
- 13.9. Dresser-Rand Group Inc.
- 13.10. Kobelco Compressors America Inc.

#### 14. STRATEGIC RECOMMENDATIONS

#### 15. ABOUT US & DISCLAIMER



#### I would like to order

Product name: Process Gas Compressors Market - Global Industry Size, Share, Trends, Opportunity,

and Forecast, Segmented, By Type (Oil Injected, Oil-Free), By End-User (Oil & Gas, Chemicals, Power Generation, Industrial Gases, Others), By Region, By Competition,

2020-2030F

Product link: https://marketpublishers.com/r/P732E7840545EN.html

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

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

## **Payment**

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <a href="https://marketpublishers.com/r/P732E7840545EN.html">https://marketpublishers.com/r/P732E7840545EN.html</a>