

Global Oil-Free Piston Compressor Market Growth 2026-2032

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Abstracts

The global Oil-Free Piston Compressor market size is predicted to grow from US\$ 382 million in 2025 to US\$ 543 million in 2032; it is expected to grow at a CAGR of 5.2% from 2026 to 2032.

In 2025, global Oil-Free Piston Compressor production reached approximately 40.6 k units with an average global market price of around US\$9600 per unit. Single-line annual production capacity averages 1900 units with a gross margin of approximately 36.37-39.27%. The upstream segment of the oil-free piston compressor industry relies heavily on the supply of high-performance self-lubricating materials (e.g., PTFE composites), precision-formed components (e.g., ceramic-coated piston rings), and highly reliable sealing systems, with its technological core concentrated in the fields of specialty materials and ultra-precision machining. In terms of downstream application distribution, the medical industry (e.g., respiratory therapy and surgical equipment) accounts for the largest share at approximately 40%, chemical processes and testing make up about 30%, transportation (primarily hydrogen refueling for fuel cells and on-board systems) represents 20%, and the remaining 10% is distributed across specialized sectors such as laboratories and military applications. Current demand is primarily driven by updates to high-standard certifications for medical equipment, increasingly stringent chemical safety production regulations, and hydrogen energy transportation demonstration projects. Future opportunities are focused on emerging markets that demand extremely high oil-free reliability, including large-scale green hydrogen production processes, ultra-pure gas supply for semiconductors, and special operational equipment for extreme environments (such as deep-sea and space applications).

The oil-free piston compressor completely eliminates the use of lubricating oil in its

compression chamber, which is achieved through the application of self-lubricating materials such as PTFE-based piston rings and wear-resistant cylinder linings, along with precisely engineered clearance seals and cooling systems. This design fundamentally prevents oil contamination in the compressed gas, ensuring the delivered medium remains absolutely pure and free from oil aerosols or hydrocarbon residues. As a result, the compressor eliminates the need for complex downstream oil removal equipment, reduces operational risks associated with oil degradation or carbon buildup, and provides stable long-term performance with minimal maintenance requirements related to oil changes or filter replacements. The absence of oil also avoids potential chemical reactions or catalyst poisoning in sensitive processes, making the compressor inherently suitable for applications demanding high gas purity or strict environmental compatibility.

The future development of oil-free piston compressors will advance towards higher pressure capabilities and broader media adaptability. Specifically, in applications such as green hydrogen storage and transportation, and supercritical energy storage, there is a need to overcome the long-term wear resistance and heat dissipation challenges of self-lubricating materials at pressures exceeding 90 MPa, alongside the development of anti-hydrogen embrittlement coatings and dedicated flow path designs for gases like hydrogen. Simultaneously, stringent purity requirements in industries such as semiconductors and biopharmaceuticals will drive closer integration of compressors with deep dehumidification and nanoscale filtration technologies, ensuring stable dew points consistently below -80°C. In terms of intelligence, real-time monitoring of piston ring sealing conditions and temperature variations, combined with adaptive control systems, will enable automatic energy efficiency optimization across varying loads and early fault warnings. Furthermore, to meet the demands of extreme environments like deep-sea and space exploration, lightweight corrosion-resistant structures, low-vibration designs, and remote maintenance capabilities will become technological priorities. This evolution will gradually shift the role of such compressors from mere gas supply units to comprehensive solutions encompassing gas treatment, carbon footprint management, and scenario-specific customization.

LP Information, Inc. (LPI) ' newest research report, the "Oil-Free Piston Compressor Industry Forecast" looks at past sales and reviews total world Oil-Free Piston Compressor sales in 2025, providing a comprehensive analysis by region and market sector of projected Oil-Free Piston Compressor sales for 2026 through 2032. With Oil-Free Piston Compressor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Oil-Free Piston Compressor industry.

This Insight Report provides a comprehensive analysis of the global Oil-Free Piston Compressor landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Oil-Free Piston Compressor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Oil-Free Piston Compressor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Oil-Free Piston Compressor and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Oil-Free Piston Compressor.

This report presents a comprehensive overview, market shares, and growth opportunities of Oil-Free Piston Compressor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

0-160 kW

161-250 kW

251-355 kW

Above 356 kW

Segmentation by Form:

Scroll Compressor

Horizontal Type Compressor

Segmentation by Cooling Method:

Water-cooled

Air-cooled

Segmentation by Application:

Medical

Chemical

Vehicle Transport

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Ingersoll Rand

Atlas Copco

BOGE

Dörri Technik

Ateliers François SA

Hitachi

Reno

Kobelco Compressors

Worthington Creyssensac

Werther

Remeza

ALUP Compressors

MultiAir Italia

BLITZ

Wabtec

Key Questions Addressed in this Report

What is the 10-year outlook for the global Oil-Free Piston Compressor market?

What factors are driving Oil-Free Piston Compressor market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Oil-Free Piston Compressor market opportunities vary by end market size?

How does Oil-Free Piston Compressor break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Oil-Free Piston Compressor Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Oil-Free Piston Compressor by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Oil-Free Piston Compressor by Country/Region, 2021, 2025 & 2032
- 2.2 Oil-Free Piston Compressor Segment by Type
 - 2.2.1 0-160 kW
 - 2.2.2 161-250 kW
 - 2.2.3 251-355 kW
 - 2.2.4 Above 356 kW
 - 2.2.5 Oil-Free Piston Compressor Sales by Type
 - 2.2.5.1 Global Oil-Free Piston Compressor Sales Market Share by Type (2021-2026)
 - 2.2.5.2 Global Oil-Free Piston Compressor Revenue and Market Share by Type (2021-2026)
 - 2.2.5.3 Global Oil-Free Piston Compressor Sale Price by Type (2021-2026)
- 2.3 Oil-Free Piston Compressor Segment by Form
 - 2.3.1 Scroll Compressor
 - 2.3.2 Horizontal Type Compressor
 - 2.3.3 Oil-Free Piston Compressor Sales by Form
 - 2.3.3.1 Global Oil-Free Piston Compressor Sales Market Share by Form (2021-2026)
 - 2.3.3.2 Global Oil-Free Piston Compressor Revenue and Market Share by Form (2021-2026)
 - 2.3.3.3 Global Oil-Free Piston Compressor Sale Price by Form (2021-2026)

2.4 Oil-Free Piston Compressor Segment by Cooling Method

2.4.1 Water-cooled

2.4.2 Air-cooled

2.4.3 Oil-Free Piston Compressor Sales by Cooling Method

2.4.3.1 Global Oil-Free Piston Compressor Sales Market Share by Cooling Method (2021-2026)

2.4.3.2 Global Oil-Free Piston Compressor Revenue and Market Share by Cooling Method (2021-2026)

2.4.3.3 Global Oil-Free Piston Compressor Sale Price by Cooling Method (2021-2026)

2.5 Oil-Free Piston Compressor Segment by Application

2.5.1 Medical

2.5.2 Chemical

2.5.3 Vehicle Transport

2.5.4 Others

2.5.5 Oil-Free Piston Compressor Sales by Application

2.5.5.1 Global Oil-Free Piston Compressor Sale Market Share by Application (2021-2026)

2.5.5.2 Global Oil-Free Piston Compressor Revenue and Market Share by Application (2021-2026)

2.5.5.3 Global Oil-Free Piston Compressor Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Oil-Free Piston Compressor Breakdown Data by Company

3.1.1 Global Oil-Free Piston Compressor Annual Sales by Company (2021-2026)

3.1.2 Global Oil-Free Piston Compressor Sales Market Share by Company (2021-2026)

3.2 Global Oil-Free Piston Compressor Annual Revenue by Company (2021-2026)

3.2.1 Global Oil-Free Piston Compressor Revenue by Company (2021-2026)

3.2.2 Global Oil-Free Piston Compressor Revenue Market Share by Company (2021-2026)

3.3 Global Oil-Free Piston Compressor Sale Price by Company

3.4 Key Manufacturers Oil-Free Piston Compressor Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Oil-Free Piston Compressor Product Location Distribution

3.4.2 Players Oil-Free Piston Compressor Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

- 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR OIL-FREE PISTON COMPRESSOR BY GEOGRAPHIC REGION

- 4.1 World Historic Oil-Free Piston Compressor Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Oil-Free Piston Compressor Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Oil-Free Piston Compressor Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Oil-Free Piston Compressor Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Oil-Free Piston Compressor Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Oil-Free Piston Compressor Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Oil-Free Piston Compressor Sales Growth
- 4.4 APAC Oil-Free Piston Compressor Sales Growth
- 4.5 Europe Oil-Free Piston Compressor Sales Growth
- 4.6 Middle East & Africa Oil-Free Piston Compressor Sales Growth

5 AMERICAS

- 5.1 Americas Oil-Free Piston Compressor Sales by Country
 - 5.1.1 Americas Oil-Free Piston Compressor Sales by Country (2021-2026)
 - 5.1.2 Americas Oil-Free Piston Compressor Revenue by Country (2021-2026)
- 5.2 Americas Oil-Free Piston Compressor Sales by Type (2021-2026)
- 5.3 Americas Oil-Free Piston Compressor Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Oil-Free Piston Compressor Sales by Region

- 6.1.1 APAC Oil-Free Piston Compressor Sales by Region (2021-2026)
- 6.1.2 APAC Oil-Free Piston Compressor Revenue by Region (2021-2026)
- 6.2 APAC Oil-Free Piston Compressor Sales by Type (2021-2026)
- 6.3 APAC Oil-Free Piston Compressor Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe Oil-Free Piston Compressor by Country
 - 7.1.1 Europe Oil-Free Piston Compressor Sales by Country (2021-2026)
 - 7.1.2 Europe Oil-Free Piston Compressor Revenue by Country (2021-2026)
- 7.2 Europe Oil-Free Piston Compressor Sales by Type (2021-2026)
- 7.3 Europe Oil-Free Piston Compressor Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Oil-Free Piston Compressor by Country
 - 8.1.1 Middle East & Africa Oil-Free Piston Compressor Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa Oil-Free Piston Compressor Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Oil-Free Piston Compressor Sales by Type (2021-2026)
- 8.3 Middle East & Africa Oil-Free Piston Compressor Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Oil-Free Piston Compressor

10.3 Manufacturing Process Analysis of Oil-Free Piston Compressor

10.4 Industry Chain Structure of Oil-Free Piston Compressor

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Oil-Free Piston Compressor Distributors

11.3 Oil-Free Piston Compressor Customer

12 WORLD FORECAST REVIEW FOR OIL-FREE PISTON COMPRESSOR BY GEOGRAPHIC REGION

12.1 Global Oil-Free Piston Compressor Market Size Forecast by Region

12.1.1 Global Oil-Free Piston Compressor Forecast by Region (2027-2032)

12.1.2 Global Oil-Free Piston Compressor Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Oil-Free Piston Compressor Forecast by Type (2027-2032)

12.7 Global Oil-Free Piston Compressor Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Ingersoll Rand

13.1.1 Ingersoll Rand Company Information

13.1.2 Ingersoll Rand Oil-Free Piston Compressor Product Portfolios and Specifications

13.1.3 Ingersoll Rand Oil-Free Piston Compressor Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Ingersoll Rand Main Business Overview

13.1.5 Ingersoll Rand Latest Developments

13.2 Atlas Copco

13.2.1 Atlas Copco Company Information

13.2.2 Atlas Copco Oil-Free Piston Compressor Product Portfolios and Specifications

13.2.3 Atlas Copco Oil-Free Piston Compressor Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Atlas Copco Main Business Overview

13.2.5 Atlas Copco Latest Developments

13.3 BOGE

13.3.1 BOGE Company Information

13.3.2 BOGE Oil-Free Piston Compressor Product Portfolios and Specifications

13.3.3 BOGE Oil-Free Piston Compressor Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 BOGE Main Business Overview

13.3.5 BOGE Latest Developments

13.4 Dörri Technik

13.4.1 Dörri Technik Company Information

13.4.2 Dörri Technik Oil-Free Piston Compressor Product Portfolios and Specifications

13.4.3 Dörri Technik Oil-Free Piston Compressor Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Dörri Technik Main Business Overview

13.4.5 Dörri Technik Latest Developments

13.5 Ateliers Françoise SA

13.5.1 Ateliers Françoise SA Company Information

13.5.2 Ateliers Françoise SA Oil-Free Piston Compressor Product Portfolios and Specifications

13.5.3 Ateliers Françoise SA Oil-Free Piston Compressor Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Ateliers Françoise SA Main Business Overview

13.5.5 Ateliers Françoise SA Latest Developments

13.6 Hitachi

13.6.1 Hitachi Company Information

13.6.2 Hitachi Oil-Free Piston Compressor Product Portfolios and Specifications

13.6.3 Hitachi Oil-Free Piston Compressor Sales, Revenue, Price and Gross Margin

(2021-2026)

13.6.4 Hitachi Main Business Overview

13.6.5 Hitachi Latest Developments

13.7 Reno

13.7.1 Reno Company Information

13.7.2 Reno Oil-Free Piston Compressor Product Portfolios and Specifications

13.7.3 Reno Oil-Free Piston Compressor Sales, Revenue, Price and Gross Margin

(2021-2026)

13.7.4 Reno Main Business Overview

13.7.5 Reno Latest Developments

13.8 Kobelco Compressors

13.8.1 Kobelco Compressors Company Information

13.8.2 Kobelco Compressors Oil-Free Piston Compressor Product Portfolios and Specifications

13.8.3 Kobelco Compressors Oil-Free Piston Compressor Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Kobelco Compressors Main Business Overview

13.8.5 Kobelco Compressors Latest Developments

13.9 Worthington Creyssensac

13.9.1 Worthington Creyssensac Company Information

13.9.2 Worthington Creyssensac Oil-Free Piston Compressor Product Portfolios and Specifications

13.9.3 Worthington Creyssensac Oil-Free Piston Compressor Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Worthington Creyssensac Main Business Overview

13.9.5 Worthington Creyssensac Latest Developments

13.10 Werther

13.10.1 Werther Company Information

13.10.2 Werther Oil-Free Piston Compressor Product Portfolios and Specifications

13.10.3 Werther Oil-Free Piston Compressor Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Werther Main Business Overview

13.10.5 Werther Latest Developments

13.11 Remeza

13.11.1 Remeza Company Information

13.11.2 Remeza Oil-Free Piston Compressor Product Portfolios and Specifications

13.11.3 Remeza Oil-Free Piston Compressor Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Remeza Main Business Overview

- 13.11.5 Remeza Latest Developments
- 13.12 ALUP Compressors
 - 13.12.1 ALUP Compressors Company Information
 - 13.12.2 ALUP Compressors Oil-Free Piston Compressor Product Portfolios and Specifications
 - 13.12.3 ALUP Compressors Oil-Free Piston Compressor Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.12.4 ALUP Compressors Main Business Overview
 - 13.12.5 ALUP Compressors Latest Developments
- 13.13 MultiAir Italia
 - 13.13.1 MultiAir Italia Company Information
 - 13.13.2 MultiAir Italia Oil-Free Piston Compressor Product Portfolios and Specifications
 - 13.13.3 MultiAir Italia Oil-Free Piston Compressor Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.13.4 MultiAir Italia Main Business Overview
 - 13.13.5 MultiAir Italia Latest Developments
- 13.14 BLITZ
 - 13.14.1 BLITZ Company Information
 - 13.14.2 BLITZ Oil-Free Piston Compressor Product Portfolios and Specifications
 - 13.14.3 BLITZ Oil-Free Piston Compressor Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.14.4 BLITZ Main Business Overview
 - 13.14.5 BLITZ Latest Developments
- 13.15 Wabtec
 - 13.15.1 Wabtec Company Information
 - 13.15.2 Wabtec Oil-Free Piston Compressor Product Portfolios and Specifications
 - 13.15.3 Wabtec Oil-Free Piston Compressor Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.15.4 Wabtec Main Business Overview
 - 13.15.5 Wabtec Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Oil-Free Piston Compressor Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Oil-Free Piston Compressor Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of 0-160 kW

Table 4. Major Players of 161-250 kW

Table 5. Major Players of 251-355 kW

Table 6. Major Players of Above 356 kW

Table 7. Global Oil-Free Piston Compressor Sales by Type (2021-2026) & (K Units)

Table 8. Global Oil-Free Piston Compressor Sales Market Share by Type (2021-2026)

Table 9. Global Oil-Free Piston Compressor Revenue by Type (2021-2026) & (\$ million)

Table 10. Global Oil-Free Piston Compressor Revenue Market Share by Type (2021-2026)

Table 11. Global Oil-Free Piston Compressor Sale Price by Type (2021-2026) & (US\$/Unit)

Table 12. Major Players of Scroll Compressor

Table 13. Major Players of Horizontal Type Compressor

Table 14. Global Oil-Free Piston Compressor Sales by Form (2021-2026) & (K Units)

Table 15. Global Oil-Free Piston Compressor Sales Market Share by Form (2021-2026)

Table 16. Global Oil-Free Piston Compressor Revenue by Form (2021-2026) & (\$ million)

Table 17. Global Oil-Free Piston Compressor Revenue Market Share by Form (2021-2026)

Table 18. Global Oil-Free Piston Compressor Sale Price by Form (2021-2026) & (US\$/Unit)

Table 19. Major Players of Water-cooled

Table 20. Major Players of Air-cooled

Table 21. Global Oil-Free Piston Compressor Sales by Cooling Method (2021-2026) & (K Units)

Table 22. Global Oil-Free Piston Compressor Sales Market Share by Cooling Method (2021-2026)

Table 23. Global Oil-Free Piston Compressor Revenue by Cooling Method (2021-2026) & (\$ million)

Table 24. Global Oil-Free Piston Compressor Revenue Market Share by Cooling Method (2021-2026)

Table 25. Global Oil-Free Piston Compressor Sale Price by Cooling Method (2021-2026) & (US\$/Unit)
Table 26. Global Oil-Free Piston Compressor Sale by Application (2021-2026) & (K Units)
Table 27. Global Oil-Free Piston Compressor Sale Market Share by Application (2021-2026)
Table 28. Global Oil-Free Piston Compressor Revenue by Application (2021-2026) & (\$ million)
Table 29. Global Oil-Free Piston Compressor Revenue Market Share by Application (2021-2026)
Table 30. Global Oil-Free Piston Compressor Sale Price by Application (2021-2026) & (US\$/Unit)
Table 31. Global Oil-Free Piston Compressor Sales by Company (2021-2026) & (K Units)
Table 32. Global Oil-Free Piston Compressor Sales Market Share by Company (2021-2026)
Table 33. Global Oil-Free Piston Compressor Revenue by Company (2021-2026) & (\$ millions)
Table 34. Global Oil-Free Piston Compressor Revenue Market Share by Company (2021-2026)
Table 35. Global Oil-Free Piston Compressor Sale Price by Company (2021-2026) & (US\$/Unit)
Table 36. Key Manufacturers Oil-Free Piston Compressor Producing Area Distribution and Sales Area
Table 37. Players Oil-Free Piston Compressor Products Offered
Table 38. Oil-Free Piston Compressor Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 39. New Products and Potential Entrants
Table 40. Market M&A Activity & Strategy
Table 41. Global Oil-Free Piston Compressor Sales by Geographic Region (2021-2026) & (K Units)
Table 42. Global Oil-Free Piston Compressor Sales Market Share Geographic Region (2021-2026)
Table 43. Global Oil-Free Piston Compressor Revenue by Geographic Region (2021-2026) & (\$ millions)
Table 44. Global Oil-Free Piston Compressor Revenue Market Share by Geographic Region (2021-2026)
Table 45. Global Oil-Free Piston Compressor Sales by Country/Region (2021-2026) & (K Units)

Table 46. Global Oil-Free Piston Compressor Sales Market Share by Country/Region (2021-2026)

Table 47. Global Oil-Free Piston Compressor Revenue by Country/Region (2021-2026) & (\$ millions)

Table 48. Global Oil-Free Piston Compressor Revenue Market Share by Country/Region (2021-2026)

Table 49. Americas Oil-Free Piston Compressor Sales by Country (2021-2026) & (K Units)

Table 50. Americas Oil-Free Piston Compressor Sales Market Share by Country (2021-2026)

Table 51. Americas Oil-Free Piston Compressor Revenue by Country (2021-2026) & (\$ millions)

Table 52. Americas Oil-Free Piston Compressor Sales by Type (2021-2026) & (K Units)

Table 53. Americas Oil-Free Piston Compressor Sales by Application (2021-2026) & (K Units)

Table 54. APAC Oil-Free Piston Compressor Sales by Region (2021-2026) & (K Units)

Table 55. APAC Oil-Free Piston Compressor Sales Market Share by Region (2021-2026)

Table 56. APAC Oil-Free Piston Compressor Revenue by Region (2021-2026) & (\$ millions)

Table 57. APAC Oil-Free Piston Compressor Sales by Type (2021-2026) & (K Units)

Table 58. APAC Oil-Free Piston Compressor Sales by Application (2021-2026) & (K Units)

Table 59. Europe Oil-Free Piston Compressor Sales by Country (2021-2026) & (K Units)

Table 60. Europe Oil-Free Piston Compressor Revenue by Country (2021-2026) & (\$ millions)

Table 61. Europe Oil-Free Piston Compressor Sales by Type (2021-2026) & (K Units)

Table 62. Europe Oil-Free Piston Compressor Sales by Application (2021-2026) & (K Units)

Table 63. Middle East & Africa Oil-Free Piston Compressor Sales by Country (2021-2026) & (K Units)

Table 64. Middle East & Africa Oil-Free Piston Compressor Revenue Market Share by Country (2021-2026)

Table 65. Middle East & Africa Oil-Free Piston Compressor Sales by Type (2021-2026) & (K Units)

Table 66. Middle East & Africa Oil-Free Piston Compressor Sales by Application (2021-2026) & (K Units)

Table 67. Key Market Drivers & Growth Opportunities of Oil-Free Piston Compressor

Table 68. Key Market Challenges & Risks of Oil-Free Piston Compressor
Table 69. Key Industry Trends of Oil-Free Piston Compressor
Table 70. Oil-Free Piston Compressor Raw Material
Table 71. Key Suppliers of Raw Materials
Table 72. Oil-Free Piston Compressor Distributors List
Table 73. Oil-Free Piston Compressor Customer List
Table 74. Global Oil-Free Piston Compressor Sales Forecast by Region (2027-2032) & (K Units)
Table 75. Global Oil-Free Piston Compressor Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 76. Americas Oil-Free Piston Compressor Sales Forecast by Country (2027-2032) & (K Units)
Table 77. Americas Oil-Free Piston Compressor Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 78. APAC Oil-Free Piston Compressor Sales Forecast by Region (2027-2032) & (K Units)
Table 79. APAC Oil-Free Piston Compressor Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 80. Europe Oil-Free Piston Compressor Sales Forecast by Country (2027-2032) & (K Units)
Table 81. Europe Oil-Free Piston Compressor Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 82. Middle East & Africa Oil-Free Piston Compressor Sales Forecast by Country (2027-2032) & (K Units)
Table 83. Middle East & Africa Oil-Free Piston Compressor Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 84. Global Oil-Free Piston Compressor Sales Forecast by Type (2027-2032) & (K Units)
Table 85. Global Oil-Free Piston Compressor Revenue Forecast by Type (2027-2032) & (\$ millions)
Table 86. Global Oil-Free Piston Compressor Sales Forecast by Application (2027-2032) & (K Units)
Table 87. Global Oil-Free Piston Compressor Revenue Forecast by Application (2027-2032) & (\$ millions)
Table 88. Ingersoll Rand Basic Information, Oil-Free Piston Compressor Manufacturing Base, Sales Area and Its Competitors
Table 89. Ingersoll Rand Oil-Free Piston Compressor Product Portfolios and Specifications
Table 90. Ingersoll Rand Oil-Free Piston Compressor Sales (K Units), Revenue (\$

Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 91. Ingersoll Rand Main Business

Table 92. Ingersoll Rand Latest Developments

Table 93. Atlas Copco Basic Information, Oil-Free Piston Compressor Manufacturing Base, Sales Area and Its Competitors

Table 94. Atlas Copco Oil-Free Piston Compressor Product Portfolios and Specifications

Table 95. Atlas Copco Oil-Free Piston Compressor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 96. Atlas Copco Main Business

Table 97. Atlas Copco Latest Developments

Table 98. BOGE Basic Information, Oil-Free Piston Compressor Manufacturing Base, Sales Area and Its Competitors

Table 99. BOGE Oil-Free Piston Compressor Product Portfolios and Specifications

Table 100. BOGE Oil-Free Piston Compressor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 101. BOGE Main Business

Table 102. BOGE Latest Developments

Table 103. Dörri Technik Basic Information, Oil-Free Piston Compressor Manufacturing Base, Sales Area and Its Competitors

Table 104. Dörri Technik Oil-Free Piston Compressor Product Portfolios and Specifications

Table 105. Dörri Technik Oil-Free Piston Compressor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 106. Dörri Technik Main Business

Table 107. Dörri Technik Latest Developments

Table 108. Ateliers Français SA Basic Information, Oil-Free Piston Compressor Manufacturing Base, Sales Area and Its Competitors

Table 109. Ateliers Français SA Oil-Free Piston Compressor Product Portfolios and Specifications

Table 110. Ateliers Français SA Oil-Free Piston Compressor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 111. Ateliers Français SA Main Business

Table 112. Ateliers Français SA Latest Developments

Table 113. Hitachi Basic Information, Oil-Free Piston Compressor Manufacturing Base, Sales Area and Its Competitors

Table 114. Hitachi Oil-Free Piston Compressor Product Portfolios and Specifications

Table 115. Hitachi Oil-Free Piston Compressor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 116. Hitachi Main Business
Table 117. Hitachi Latest Developments
Table 118. Reno Basic Information, Oil-Free Piston Compressor Manufacturing Base, Sales Area and Its Competitors
Table 119. Reno Oil-Free Piston Compressor Product Portfolios and Specifications
Table 120. Reno Oil-Free Piston Compressor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 121. Reno Main Business
Table 122. Reno Latest Developments
Table 123. Kobelco Compressors Basic Information, Oil-Free Piston Compressor Manufacturing Base, Sales Area and Its Competitors
Table 124. Kobelco Compressors Oil-Free Piston Compressor Product Portfolios and Specifications
Table 125. Kobelco Compressors Oil-Free Piston Compressor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 126. Kobelco Compressors Main Business
Table 127. Kobelco Compressors Latest Developments
Table 128. Worthington Creyssensac Basic Information, Oil-Free Piston Compressor Manufacturing Base, Sales Area and Its Competitors
Table 129. Worthington Creyssensac Oil-Free Piston Compressor Product Portfolios and Specifications
Table 130. Worthington Creyssensac Oil-Free Piston Compressor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 131. Worthington Creyssensac Main Business
Table 132. Worthington Creyssensac Latest Developments
Table 133. Werther Basic Information, Oil-Free Piston Compressor Manufacturing Base, Sales Area and Its Competitors
Table 134. Werther Oil-Free Piston Compressor Product Portfolios and Specifications
Table 135. Werther Oil-Free Piston Compressor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 136. Werther Main Business
Table 137. Werther Latest Developments
Table 138. Remeza Basic Information, Oil-Free Piston Compressor Manufacturing Base, Sales Area and Its Competitors
Table 139. Remeza Oil-Free Piston Compressor Product Portfolios and Specifications
Table 140. Remeza Oil-Free Piston Compressor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 141. Remeza Main Business
Table 142. Remeza Latest Developments

Table 143. ALUP Compressors Basic Information, Oil-Free Piston Compressor Manufacturing Base, Sales Area and Its Competitors

Table 144. ALUP Compressors Oil-Free Piston Compressor Product Portfolios and Specifications

Table 145. ALUP Compressors Oil-Free Piston Compressor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 146. ALUP Compressors Main Business

Table 147. ALUP Compressors Latest Developments

Table 148. MultiAir Italia Basic Information, Oil-Free Piston Compressor Manufacturing Base, Sales Area and Its Competitors

Table 149. MultiAir Italia Oil-Free Piston Compressor Product Portfolios and Specifications

Table 150. MultiAir Italia Oil-Free Piston Compressor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 151. MultiAir Italia Main Business

Table 152. MultiAir Italia Latest Developments

Table 153. BLITZ Basic Information, Oil-Free Piston Compressor Manufacturing Base, Sales Area and Its Competitors

Table 154. BLITZ Oil-Free Piston Compressor Product Portfolios and Specifications

Table 155. BLITZ Oil-Free Piston Compressor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 156. BLITZ Main Business

Table 157. BLITZ Latest Developments

Table 158. Wabtec Basic Information, Oil-Free Piston Compressor Manufacturing Base, Sales Area and Its Competitors

Table 159. Wabtec Oil-Free Piston Compressor Product Portfolios and Specifications

Table 160. Wabtec Oil-Free Piston Compressor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 161. Wabtec Main Business

Table 162. Wabtec Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Oil-Free Piston Compressor
- Figure 2. Oil-Free Piston Compressor Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Oil-Free Piston Compressor Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global Oil-Free Piston Compressor Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Oil-Free Piston Compressor Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Oil-Free Piston Compressor Sales Market Share by Country/Region (2025)
- Figure 10. Oil-Free Piston Compressor Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of 0-160 kW
- Figure 12. Product Picture of 161-250 kW
- Figure 13. Product Picture of 251-355 kW
- Figure 14. Product Picture of Above 356 kW
- Figure 15. Global Oil-Free Piston Compressor Sales Market Share by Type in 2026
- Figure 16. Global Oil-Free Piston Compressor Revenue Market Share by Type (2021-2026)
- Figure 17. Product Picture of Scroll Compressor
- Figure 18. Product Picture of Horizontal Type Compressor
- Figure 19. Global Oil-Free Piston Compressor Sales Market Share by Form in 2026
- Figure 20. Global Oil-Free Piston Compressor Revenue Market Share by Form (2021-2026)
- Figure 21. Product Picture of Water-cooled
- Figure 22. Product Picture of Air-cooled
- Figure 23. Global Oil-Free Piston Compressor Sales Market Share by Cooling Method in 2026
- Figure 24. Global Oil-Free Piston Compressor Revenue Market Share by Cooling Method (2021-2026)
- Figure 25. Oil-Free Piston Compressor Consumed in Medical
- Figure 26. Global Oil-Free Piston Compressor Market: Medical (2021-2026) & (K Units)
- Figure 27. Oil-Free Piston Compressor Consumed in Chemical
- Figure 28. Global Oil-Free Piston Compressor Market: Chemical (2021-2026) & (K

Units)

Figure 29. Oil-Free Piston Compressor Consumed in Vehicle Transport

Figure 30. Global Oil-Free Piston Compressor Market: Vehicle Transport (2021-2026) & (K Units)

Figure 31. Oil-Free Piston Compressor Consumed in Others

Figure 32. Global Oil-Free Piston Compressor Market: Others (2021-2026) & (K Units)

Figure 33. Global Oil-Free Piston Compressor Sales Market Share by Application (2025)

Figure 34. Global Oil-Free Piston Compressor Revenue Market Share by Application in 2025

Figure 35. Oil-Free Piston Compressor Sales by Company in 2025 (K Units)

Figure 36. Global Oil-Free Piston Compressor Sales Market Share by Company in 2025

Figure 37. Oil-Free Piston Compressor Revenue by Company in 2025 (\$ millions)

Figure 38. Global Oil-Free Piston Compressor Revenue Market Share by Company in 2025

Figure 39. Global Oil-Free Piston Compressor Sales Market Share by Geographic Region (2021-2026)

Figure 40. Global Oil-Free Piston Compressor Revenue Market Share by Geographic Region in 2025

Figure 41. Americas Oil-Free Piston Compressor Sales 2021-2026 (K Units)

Figure 42. Americas Oil-Free Piston Compressor Revenue 2021-2026 (\$ millions)

Figure 43. APAC Oil-Free Piston Compressor Sales 2021-2026 (K Units)

Figure 44. APAC Oil-Free Piston Compressor Revenue 2021-2026 (\$ millions)

Figure 45. Europe Oil-Free Piston Compressor Sales 2021-2026 (K Units)

Figure 46. Europe Oil-Free Piston Compressor Revenue 2021-2026 (\$ millions)

Figure 47. Middle East & Africa Oil-Free Piston Compressor Sales 2021-2026 (K Units)

Figure 48. Middle East & Africa Oil-Free Piston Compressor Revenue 2021-2026 (\$ millions)

Figure 49. Americas Oil-Free Piston Compressor Sales Market Share by Country in 2025

Figure 50. Americas Oil-Free Piston Compressor Revenue Market Share by Country (2021-2026)

Figure 51. Americas Oil-Free Piston Compressor Sales Market Share by Type (2021-2026)

Figure 52. Americas Oil-Free Piston Compressor Sales Market Share by Application (2021-2026)

Figure 53. United States Oil-Free Piston Compressor Revenue Growth 2021-2026 (\$ millions)

Figure 54. Canada Oil-Free Piston Compressor Revenue Growth 2021-2026 (\$ millions)

Figure 55. Mexico Oil-Free Piston Compressor Revenue Growth 2021-2026 (\$ millions)

Figure 56. Brazil Oil-Free Piston Compressor Revenue Growth 2021-2026 (\$ millions)

Figure 57. APAC Oil-Free Piston Compressor Sales Market Share by Region in 2025

Figure 58. APAC Oil-Free Piston Compressor Revenue Market Share by Region (2021-2026)

Figure 59. APAC Oil-Free Piston Compressor Sales Market Share by Type (2021-2026)

Figure 60. APAC Oil-Free Piston Compressor Sales Market Share by Application (2021-2026)

Figure 61. China Oil-Free Piston Compressor Revenue Growth 2021-2026 (\$ millions)

Figure 62. Japan Oil-Free Piston Compressor Revenue Growth 2021-2026 (\$ millions)

Figure 63. South Korea Oil-Free Piston Compressor Revenue Growth 2021-2026 (\$ millions)

Figure 64. Southeast Asia Oil-Free Piston Compressor Revenue Growth 2021-2026 (\$ millions)

Figure 65. India Oil-Free Piston Compressor Revenue Growth 2021-2026 (\$ millions)

Figure 66. Australia Oil-Free Piston Compressor Revenue Growth 2021-2026 (\$ millions)

Figure 67. China Taiwan Oil-Free Piston Compressor Revenue Growth 2021-2026 (\$ millions)

Figure 68. Europe Oil-Free Piston Compressor Sales Market Share by Country in 2025

Figure 69. Europe Oil-Free Piston Compressor Revenue Market Share by Country (2021-2026)

Figure 70. Europe Oil-Free Piston Compressor Sales Market Share by Type (2021-2026)

Figure 71. Europe Oil-Free Piston Compressor Sales Market Share by Application (2021-2026)

Figure 72. Germany Oil-Free Piston Compressor Revenue Growth 2021-2026 (\$ millions)

Figure 73. France Oil-Free Piston Compressor Revenue Growth 2021-2026 (\$ millions)

Figure 74. UK Oil-Free Piston Compressor Revenue Growth 2021-2026 (\$ millions)

Figure 75. Italy Oil-Free Piston Compressor Revenue Growth 2021-2026 (\$ millions)

Figure 76. Russia Oil-Free Piston Compressor Revenue Growth 2021-2026 (\$ millions)

Figure 77. Middle East & Africa Oil-Free Piston Compressor Sales Market Share by Country (2021-2026)

Figure 78. Middle East & Africa Oil-Free Piston Compressor Sales Market Share by Type (2021-2026)

Figure 79. Middle East & Africa Oil-Free Piston Compressor Sales Market Share by Application (2021-2026)

Figure 80. Egypt Oil-Free Piston Compressor Revenue Growth 2021-2026 (\$ millions)

Figure 81. South Africa Oil-Free Piston Compressor Revenue Growth 2021-2026 (\$

millions)

Figure 82. Israel Oil-Free Piston Compressor Revenue Growth 2021-2026 (\$ millions)

Figure 83. Turkey Oil-Free Piston Compressor Revenue Growth 2021-2026 (\$ millions)

Figure 84. GCC Countries Oil-Free Piston Compressor Revenue Growth 2021-2026 (\$ millions)

Figure 85. Manufacturing Cost Structure Analysis of Oil-Free Piston Compressor in 2026

Figure 86. Manufacturing Process Analysis of Oil-Free Piston Compressor

Figure 87. Industry Chain Structure of Oil-Free Piston Compressor

Figure 88. Channels of Distribution

Figure 89. Global Oil-Free Piston Compressor Sales Market Forecast by Region (2027-2032)

Figure 90. Global Oil-Free Piston Compressor Revenue Market Share Forecast by Region (2027-2032)

Figure 91. Global Oil-Free Piston Compressor Sales Market Share Forecast by Type (2027-2032)

Figure 92. Global Oil-Free Piston Compressor Revenue Market Share Forecast by Type (2027-2032)

Figure 93. Global Oil-Free Piston Compressor Sales Market Share Forecast by Application (2027-2032)

Figure 94. Global Oil-Free Piston Compressor Revenue Market Share Forecast by Application (2027-2032)

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