

Global Oil-Free Piston Compressor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Oil-Free Piston Compressor market size is expected to reach \$ 562 million by 2032, rising at a market growth of 4.9% CAGR during the forecast period (2026-2032).

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.

This report studies the global Oil-Free Piston Compressor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Oil-Free Piston Compressor and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Oil-Free Piston Compressor that

contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Oil-Free Piston Compressor total production and demand, 2021-2032, (K Units)

Global Oil-Free Piston Compressor total production value, 2021-2032, (USD Million)

Global Oil-Free Piston Compressor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Oil-Free Piston Compressor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Oil-Free Piston Compressor domestic production, consumption, key domestic manufacturers and share

Global Oil-Free Piston Compressor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Oil-Free Piston Compressor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Oil-Free Piston Compressor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Oil-Free Piston Compressor market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Ingersoll Rand, Atlas Copco, BOGE, D?rr Technik, Ateliers Fran?ois SA, Hitachi, Reno, Kobelco Compressors, Worthington Creyssensac, Werther, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Oil-Free Piston Compressor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Oil-Free Piston Compressor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Oil-Free Piston Compressor Market, Segmentation by Type:

0-160 kW

161-250 kW

251-355 kW

Above 356 kW

Global Oil-Free Piston Compressor Market, Segmentation by Form:

Scroll Compressor

Horizontal Type Compressor

Global Oil-Free Piston Compressor Market, Segmentation by Cooling Method:

Water-cooled

Air-cooled

Global Oil-Free Piston Compressor Market, Segmentation by Application:

Medical

Chemical

Vehicle Transport

Others

Companies Profiled:

Ingersoll Rand

Atlas Copco

BOGE

Durr Technik

Ateliers Franois SA

Hitachi

Reno

Kobelco Compressors

Worthington Creyssensac

Werther

Remeza

ALUP Compressors

MultiAir Italia

BLITZ

Wabtec

Key Questions Answered:

1. How big is the global Oil-Free Piston Compressor market?
2. What is the demand of the global Oil-Free Piston Compressor market?
3. What is the year over year growth of the global Oil-Free Piston Compressor market?
4. What is the production and production value of the global Oil-Free Piston Compressor market?
5. Who are the key producers in the global Oil-Free Piston Compressor market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Oil-Free Piston Compressor Introduction
- 1.2 World Oil-Free Piston Compressor Supply & Forecast
 - 1.2.1 World Oil-Free Piston Compressor Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Oil-Free Piston Compressor Production (2021-2032)
 - 1.2.3 World Oil-Free Piston Compressor Pricing Trends (2021-2032)
- 1.3 World Oil-Free Piston Compressor Production by Region (Based on Production Site)
 - 1.3.1 World Oil-Free Piston Compressor Production Value by Region (2021-2032)
 - 1.3.2 World Oil-Free Piston Compressor Production by Region (2021-2032)
 - 1.3.3 World Oil-Free Piston Compressor Average Price by Region (2021-2032)
 - 1.3.4 North America Oil-Free Piston Compressor Production (2021-2032)
 - 1.3.5 Europe Oil-Free Piston Compressor Production (2021-2032)
 - 1.3.6 China Oil-Free Piston Compressor Production (2021-2032)
 - 1.3.7 Japan Oil-Free Piston Compressor Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Oil-Free Piston Compressor Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Oil-Free Piston Compressor Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Oil-Free Piston Compressor Demand (2021-2032)
- 2.2 World Oil-Free Piston Compressor Consumption by Region
 - 2.2.1 World Oil-Free Piston Compressor Consumption by Region (2021-2026)
 - 2.2.2 World Oil-Free Piston Compressor Consumption Forecast by Region (2027-2032)
- 2.3 United States Oil-Free Piston Compressor Consumption (2021-2032)
- 2.4 China Oil-Free Piston Compressor Consumption (2021-2032)
- 2.5 Europe Oil-Free Piston Compressor Consumption (2021-2032)
- 2.6 Japan Oil-Free Piston Compressor Consumption (2021-2032)
- 2.7 South Korea Oil-Free Piston Compressor Consumption (2021-2032)
- 2.8 ASEAN Oil-Free Piston Compressor Consumption (2021-2032)
- 2.9 India Oil-Free Piston Compressor Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Oil-Free Piston Compressor Production Value by Manufacturer (2021-2026)
- 3.2 World Oil-Free Piston Compressor Production by Manufacturer (2021-2026)
- 3.3 World Oil-Free Piston Compressor Average Price by Manufacturer (2021-2026)
- 3.4 Oil-Free Piston Compressor Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Oil-Free Piston Compressor Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Oil-Free Piston Compressor in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Oil-Free Piston Compressor in 2025
- 3.6 Oil-Free Piston Compressor Market: Overall Company Footprint Analysis
 - 3.6.1 Oil-Free Piston Compressor Market: Region Footprint
 - 3.6.2 Oil-Free Piston Compressor Market: Company Product Type Footprint
 - 3.6.3 Oil-Free Piston Compressor Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Oil-Free Piston Compressor Production Value Comparison
 - 4.1.1 United States VS China: Oil-Free Piston Compressor Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Oil-Free Piston Compressor Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Oil-Free Piston Compressor Production Comparison
 - 4.2.1 United States VS China: Oil-Free Piston Compressor Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Oil-Free Piston Compressor Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Oil-Free Piston Compressor Consumption Comparison
 - 4.3.1 United States VS China: Oil-Free Piston Compressor Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Oil-Free Piston Compressor Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Oil-Free Piston Compressor Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Oil-Free Piston Compressor Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Oil-Free Piston Compressor Production Value (2021-2026)

4.4.3 United States Based Manufacturers Oil-Free Piston Compressor Production (2021-2026)

4.5 China Based Oil-Free Piston Compressor Manufacturers and Market Share

4.5.1 China Based Oil-Free Piston Compressor Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Oil-Free Piston Compressor Production Value (2021-2026)

4.5.3 China Based Manufacturers Oil-Free Piston Compressor Production (2021-2026)

4.6 Rest of World Based Oil-Free Piston Compressor Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Oil-Free Piston Compressor Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Oil-Free Piston Compressor Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Oil-Free Piston Compressor Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Oil-Free Piston Compressor Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 0-160 kW

5.2.2 161-250 kW

5.2.3 251-355 kW

5.2.4 Above 356 kW

5.3 Market Segment by Type

5.3.1 World Oil-Free Piston Compressor Production by Type (2021-2032)

5.3.2 World Oil-Free Piston Compressor Production Value by Type (2021-2032)

5.3.3 World Oil-Free Piston Compressor Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY FORM

6.1 World Oil-Free Piston Compressor Market Size Overview by Form: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Form

6.2.1 Scroll Compressor

6.2.2 Horizontal Type Compressor

6.3 Market Segment by Form

6.3.1 World Oil-Free Piston Compressor Production by Form (2021-2032)

6.3.2 World Oil-Free Piston Compressor Production Value by Form (2021-2032)

6.3.3 World Oil-Free Piston Compressor Average Price by Form (2021-2032)

7 MARKET ANALYSIS BY COOLING METHOD

7.1 World Oil-Free Piston Compressor Market Size Overview by Cooling Method: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Cooling Method

7.2.1 Water-cooled

7.2.2 Air-cooled

7.3 Market Segment by Cooling Method

7.3.1 World Oil-Free Piston Compressor Production by Cooling Method (2021-2032)

7.3.2 World Oil-Free Piston Compressor Production Value by Cooling Method (2021-2032)

7.3.3 World Oil-Free Piston Compressor Average Price by Cooling Method (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Oil-Free Piston Compressor Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Medical

8.2.2 Chemical

8.2.3 Vehicle Transport

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World Oil-Free Piston Compressor Production by Application (2021-2032)

8.3.2 World Oil-Free Piston Compressor Production Value by Application (2021-2032)

8.3.3 World Oil-Free Piston Compressor Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Ingersoll Rand

- 9.1.1 Ingersoll Rand Details
- 9.1.2 Ingersoll Rand Major Business
- 9.1.3 Ingersoll Rand Oil-Free Piston Compressor Product and Services
- 9.1.4 Ingersoll Rand Oil-Free Piston Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 Ingersoll Rand Recent Developments/Updates
- 9.1.6 Ingersoll Rand Competitive Strengths & Weaknesses
- 9.2 Atlas Copco
 - 9.2.1 Atlas Copco Details
 - 9.2.2 Atlas Copco Major Business
 - 9.2.3 Atlas Copco Oil-Free Piston Compressor Product and Services
 - 9.2.4 Atlas Copco Oil-Free Piston Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 Atlas Copco Recent Developments/Updates
 - 9.2.6 Atlas Copco Competitive Strengths & Weaknesses
- 9.3 BOGE
 - 9.3.1 BOGE Details
 - 9.3.2 BOGE Major Business
 - 9.3.3 BOGE Oil-Free Piston Compressor Product and Services
 - 9.3.4 BOGE Oil-Free Piston Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 BOGE Recent Developments/Updates
 - 9.3.6 BOGE Competitive Strengths & Weaknesses
- 9.4 D?rr Technik
 - 9.4.1 D?rr Technik Details
 - 9.4.2 D?rr Technik Major Business
 - 9.4.3 D?rr Technik Oil-Free Piston Compressor Product and Services
 - 9.4.4 D?rr Technik Oil-Free Piston Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 D?rr Technik Recent Developments/Updates
 - 9.4.6 D?rr Technik Competitive Strengths & Weaknesses
- 9.5 Ateliers Fran?ois SA
 - 9.5.1 Ateliers Fran?ois SA Details
 - 9.5.2 Ateliers Fran?ois SA Major Business
 - 9.5.3 Ateliers Fran?ois SA Oil-Free Piston Compressor Product and Services
 - 9.5.4 Ateliers Fran?ois SA Oil-Free Piston Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Ateliers Fran?ois SA Recent Developments/Updates
 - 9.5.6 Ateliers Fran?ois SA Competitive Strengths & Weaknesses

9.6 Hitachi

9.6.1 Hitachi Details

9.6.2 Hitachi Major Business

9.6.3 Hitachi Oil-Free Piston Compressor Product and Services

9.6.4 Hitachi Oil-Free Piston Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Hitachi Recent Developments/Updates

9.6.6 Hitachi Competitive Strengths & Weaknesses

9.7 Reno

9.7.1 Reno Details

9.7.2 Reno Major Business

9.7.3 Reno Oil-Free Piston Compressor Product and Services

9.7.4 Reno Oil-Free Piston Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Reno Recent Developments/Updates

9.7.6 Reno Competitive Strengths & Weaknesses

9.8 Kobelco Compressors

9.8.1 Kobelco Compressors Details

9.8.2 Kobelco Compressors Major Business

9.8.3 Kobelco Compressors Oil-Free Piston Compressor Product and Services

9.8.4 Kobelco Compressors Oil-Free Piston Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Kobelco Compressors Recent Developments/Updates

9.8.6 Kobelco Compressors Competitive Strengths & Weaknesses

9.9 Worthington Creyssensac

9.9.1 Worthington Creyssensac Details

9.9.2 Worthington Creyssensac Major Business

9.9.3 Worthington Creyssensac Oil-Free Piston Compressor Product and Services

9.9.4 Worthington Creyssensac Oil-Free Piston Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Worthington Creyssensac Recent Developments/Updates

9.9.6 Worthington Creyssensac Competitive Strengths & Weaknesses

9.10 Werther

9.10.1 Werther Details

9.10.2 Werther Major Business

9.10.3 Werther Oil-Free Piston Compressor Product and Services

9.10.4 Werther Oil-Free Piston Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Werther Recent Developments/Updates

- 9.10.6 Werther Competitive Strengths & Weaknesses
- 9.11 Remeza
 - 9.11.1 Remeza Details
 - 9.11.2 Remeza Major Business
 - 9.11.3 Remeza Oil-Free Piston Compressor Product and Services
 - 9.11.4 Remeza Oil-Free Piston Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 Remeza Recent Developments/Updates
 - 9.11.6 Remeza Competitive Strengths & Weaknesses
- 9.12 ALUP Compressors
 - 9.12.1 ALUP Compressors Details
 - 9.12.2 ALUP Compressors Major Business
 - 9.12.3 ALUP Compressors Oil-Free Piston Compressor Product and Services
 - 9.12.4 ALUP Compressors Oil-Free Piston Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 ALUP Compressors Recent Developments/Updates
 - 9.12.6 ALUP Compressors Competitive Strengths & Weaknesses
- 9.13 MultiAir Italia
 - 9.13.1 MultiAir Italia Details
 - 9.13.2 MultiAir Italia Major Business
 - 9.13.3 MultiAir Italia Oil-Free Piston Compressor Product and Services
 - 9.13.4 MultiAir Italia Oil-Free Piston Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 MultiAir Italia Recent Developments/Updates
 - 9.13.6 MultiAir Italia Competitive Strengths & Weaknesses
- 9.14 BLITZ
 - 9.14.1 BLITZ Details
 - 9.14.2 BLITZ Major Business
 - 9.14.3 BLITZ Oil-Free Piston Compressor Product and Services
 - 9.14.4 BLITZ Oil-Free Piston Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 BLITZ Recent Developments/Updates
 - 9.14.6 BLITZ Competitive Strengths & Weaknesses
- 9.15 Wabtec
 - 9.15.1 Wabtec Details
 - 9.15.2 Wabtec Major Business
 - 9.15.3 Wabtec Oil-Free Piston Compressor Product and Services
 - 9.15.4 Wabtec Oil-Free Piston Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.15.5 Wabtec Recent Developments/Updates
- 9.15.6 Wabtec Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Oil-Free Piston Compressor Industry Chain
- 10.2 Oil-Free Piston Compressor Upstream Analysis
 - 10.2.1 Oil-Free Piston Compressor Core Raw Materials
 - 10.2.2 Main Manufacturers of Oil-Free Piston Compressor Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Oil-Free Piston Compressor Production Mode
- 10.6 Oil-Free Piston Compressor Procurement Model
- 10.7 Oil-Free Piston Compressor Industry Sales Model and Sales Channels
 - 10.7.1 Oil-Free Piston Compressor Sales Model
 - 10.7.2 Oil-Free Piston Compressor Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Oil-Free Piston Compressor Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Oil-Free Piston Compressor Production Value by Region (2021-2026) & (USD Million)

Table 3. World Oil-Free Piston Compressor Production Value by Region (2027-2032) & (USD Million)

Table 4. World Oil-Free Piston Compressor Production Value Market Share by Region (2021-2026)

Table 5. World Oil-Free Piston Compressor Production Value Market Share by Region (2027-2032)

Table 6. World Oil-Free Piston Compressor Production by Region (2021-2026) & (K Units)

Table 7. World Oil-Free Piston Compressor Production by Region (2027-2032) & (K Units)

Table 8. World Oil-Free Piston Compressor Production Market Share by Region (2021-2026)

Table 9. World Oil-Free Piston Compressor Production Market Share by Region (2027-2032)

Table 10. World Oil-Free Piston Compressor Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Oil-Free Piston Compressor Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Oil-Free Piston Compressor Major Market Trends

Table 13. World Oil-Free Piston Compressor Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Oil-Free Piston Compressor Consumption by Region (2021-2026) & (K Units)

Table 15. World Oil-Free Piston Compressor Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Oil-Free Piston Compressor Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Oil-Free Piston Compressor Producers in 2025

Table 18. World Oil-Free Piston Compressor Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Oil-Free Piston Compressor Producers in 2025

Table 20. World Oil-Free Piston Compressor Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Oil-Free Piston Compressor Company Evaluation Quadrant

Table 22. World Oil-Free Piston Compressor Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Oil-Free Piston Compressor Production Site of Key Manufacturer

Table 24. Oil-Free Piston Compressor Market: Company Product Type Footprint

Table 25. Oil-Free Piston Compressor Market: Company Product Application Footprint

Table 26. Oil-Free Piston Compressor Competitive Factors

Table 27. Oil-Free Piston Compressor New Entrant and Capacity Expansion Plans

Table 28. Oil-Free Piston Compressor Mergers & Acquisitions Activity

Table 29. United States VS China Oil-Free Piston Compressor Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Oil-Free Piston Compressor Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Oil-Free Piston Compressor Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Oil-Free Piston Compressor Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Oil-Free Piston Compressor Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Oil-Free Piston Compressor Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Oil-Free Piston Compressor Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Oil-Free Piston Compressor Production Market Share (2021-2026)

Table 37. China Based Oil-Free Piston Compressor Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Oil-Free Piston Compressor Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Oil-Free Piston Compressor Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Oil-Free Piston Compressor Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Oil-Free Piston Compressor Production Market

Share (2021-2026)

Table 42. Rest of World Based Oil-Free Piston Compressor Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Oil-Free Piston Compressor Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Oil-Free Piston Compressor Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Oil-Free Piston Compressor Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Oil-Free Piston Compressor Production Market Share (2021-2026)

Table 47. World Oil-Free Piston Compressor Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Oil-Free Piston Compressor Production by Type (2021-2026) & (K Units)

Table 49. World Oil-Free Piston Compressor Production by Type (2027-2032) & (K Units)

Table 50. World Oil-Free Piston Compressor Production Value by Type (2021-2026) & (USD Million)

Table 51. World Oil-Free Piston Compressor Production Value by Type (2027-2032) & (USD Million)

Table 52. World Oil-Free Piston Compressor Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Oil-Free Piston Compressor Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Oil-Free Piston Compressor Production Value by Form, (USD Million), 2021 & 2025 & 2032

Table 55. World Oil-Free Piston Compressor Production by Form (2021-2026) & (K Units)

Table 56. World Oil-Free Piston Compressor Production by Form (2027-2032) & (K Units)

Table 57. World Oil-Free Piston Compressor Production Value by Form (2021-2026) & (USD Million)

Table 58. World Oil-Free Piston Compressor Production Value by Form (2027-2032) & (USD Million)

Table 59. World Oil-Free Piston Compressor Average Price by Form (2021-2026) & (US\$/Unit)

Table 60. World Oil-Free Piston Compressor Average Price by Form (2027-2032) & (US\$/Unit)

Table 61. World Oil-Free Piston Compressor Production Value by Cooling Method, (USD Million), 2021 & 2025 & 2032

Table 62. World Oil-Free Piston Compressor Production by Cooling Method (2021-2026) & (K Units)

Table 63. World Oil-Free Piston Compressor Production by Cooling Method (2027-2032) & (K Units)

Table 64. World Oil-Free Piston Compressor Production Value by Cooling Method (2021-2026) & (USD Million)

Table 65. World Oil-Free Piston Compressor Production Value by Cooling Method (2027-2032) & (USD Million)

Table 66. World Oil-Free Piston Compressor Average Price by Cooling Method (2021-2026) & (US\$/Unit)

Table 67. World Oil-Free Piston Compressor Average Price by Cooling Method (2027-2032) & (US\$/Unit)

Table 68. World Oil-Free Piston Compressor Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Oil-Free Piston Compressor Production by Application (2021-2026) & (K Units)

Table 70. World Oil-Free Piston Compressor Production by Application (2027-2032) & (K Units)

Table 71. World Oil-Free Piston Compressor Production Value by Application (2021-2026) & (USD Million)

Table 72. World Oil-Free Piston Compressor Production Value by Application (2027-2032) & (USD Million)

Table 73. World Oil-Free Piston Compressor Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Oil-Free Piston Compressor Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Ingersoll Rand Basic Information, Manufacturing Base and Competitors

Table 76. Ingersoll Rand Major Business

Table 77. Ingersoll Rand Oil-Free Piston Compressor Product and Services

Table 78. Ingersoll Rand Oil-Free Piston Compressor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Ingersoll Rand Recent Developments/Updates

Table 80. Ingersoll Rand Competitive Strengths & Weaknesses

Table 81. Atlas Copco Basic Information, Manufacturing Base and Competitors

Table 82. Atlas Copco Major Business

Table 83. Atlas Copco Oil-Free Piston Compressor Product and Services

- Table 84. Atlas Copco Oil-Free Piston Compressor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. Atlas Copco Recent Developments/Updates
- Table 86. Atlas Copco Competitive Strengths & Weaknesses
- Table 87. BOGE Basic Information, Manufacturing Base and Competitors
- Table 88. BOGE Major Business
- Table 89. BOGE Oil-Free Piston Compressor Product and Services
- Table 90. BOGE Oil-Free Piston Compressor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. BOGE Recent Developments/Updates
- Table 92. BOGE Competitive Strengths & Weaknesses
- Table 93. D?rr Technik Basic Information, Manufacturing Base and Competitors
- Table 94. D?rr Technik Major Business
- Table 95. D?rr Technik Oil-Free Piston Compressor Product and Services
- Table 96. D?rr Technik Oil-Free Piston Compressor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. D?rr Technik Recent Developments/Updates
- Table 98. D?rr Technik Competitive Strengths & Weaknesses
- Table 99. Ateliers Fran?ois SA Basic Information, Manufacturing Base and Competitors
- Table 100. Ateliers Fran?ois SA Major Business
- Table 101. Ateliers Fran?ois SA Oil-Free Piston Compressor Product and Services
- Table 102. Ateliers Fran?ois SA Oil-Free Piston Compressor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Ateliers Fran?ois SA Recent Developments/Updates
- Table 104. Ateliers Fran?ois SA Competitive Strengths & Weaknesses
- Table 105. Hitachi Basic Information, Manufacturing Base and Competitors
- Table 106. Hitachi Major Business
- Table 107. Hitachi Oil-Free Piston Compressor Product and Services
- Table 108. Hitachi Oil-Free Piston Compressor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Hitachi Recent Developments/Updates
- Table 110. Hitachi Competitive Strengths & Weaknesses
- Table 111. Reno Basic Information, Manufacturing Base and Competitors
- Table 112. Reno Major Business
- Table 113. Reno Oil-Free Piston Compressor Product and Services
- Table 114. Reno Oil-Free Piston Compressor Production (K Units), Price (US\$/Unit),

Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Reno Recent Developments/Updates

Table 116. Reno Competitive Strengths & Weaknesses

Table 117. Kobelco Compressors Basic Information, Manufacturing Base and Competitors

Table 118. Kobelco Compressors Major Business

Table 119. Kobelco Compressors Oil-Free Piston Compressor Product and Services

Table 120. Kobelco Compressors Oil-Free Piston Compressor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Kobelco Compressors Recent Developments/Updates

Table 122. Kobelco Compressors Competitive Strengths & Weaknesses

Table 123. Worthington Creyssensac Basic Information, Manufacturing Base and Competitors

Table 124. Worthington Creyssensac Major Business

Table 125. Worthington Creyssensac Oil-Free Piston Compressor Product and Services

Table 126. Worthington Creyssensac Oil-Free Piston Compressor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Worthington Creyssensac Recent Developments/Updates

Table 128. Worthington Creyssensac Competitive Strengths & Weaknesses

Table 129. Werther Basic Information, Manufacturing Base and Competitors

Table 130. Werther Major Business

Table 131. Werther Oil-Free Piston Compressor Product and Services

Table 132. Werther Oil-Free Piston Compressor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Werther Recent Developments/Updates

Table 134. Werther Competitive Strengths & Weaknesses

Table 135. Remeza Basic Information, Manufacturing Base and Competitors

Table 136. Remeza Major Business

Table 137. Remeza Oil-Free Piston Compressor Product and Services

Table 138. Remeza Oil-Free Piston Compressor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Remeza Recent Developments/Updates

Table 140. Remeza Competitive Strengths & Weaknesses

Table 141. ALUP Compressors Basic Information, Manufacturing Base and Competitors

Table 142. ALUP Compressors Major Business

Table 143. ALUP Compressors Oil-Free Piston Compressor Product and Services

Table 144. ALUP Compressors Oil-Free Piston Compressor Production (K Units), Price

(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. ALUP Compressors Recent Developments/Updates

Table 146. ALUP Compressors Competitive Strengths & Weaknesses

Table 147. MultiAir Italia Basic Information, Manufacturing Base and Competitors

Table 148. MultiAir Italia Major Business

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

Table 150. MultiAir Italia Oil-Free Piston Compressor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. MultiAir Italia Recent Developments/Updates

Table 152. MultiAir Italia Competitive Strengths & Weaknesses

Table 153. BLITZ Basic Information, Manufacturing Base and Competitors

Table 154. BLITZ Major Business

Table 155. BLITZ Oil-Free Piston Compressor Product and Services

Table 156. BLITZ Oil-Free Piston Compressor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. BLITZ Recent Developments/Updates

Table 158. BLITZ Competitive Strengths & Weaknesses

Table 159. Wabtec Basic Information, Manufacturing Base and Competitors

Table 160. Wabtec Major Business

Table 161. Wabtec Oil-Free Piston Compressor Product and Services

Table 162. Wabtec Oil-Free Piston Compressor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Wabtec Recent Developments/Updates

Table 164. Wabtec Competitive Strengths & Weaknesses

Table 165. Global Key Players of Oil-Free Piston Compressor Upstream (Raw Materials)

Table 166. Global Oil-Free Piston Compressor Typical Customers

Table 167. Oil-Free Piston Compressor Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Oil-Free Piston Compressor Picture

Figure 2. World Oil-Free Piston Compressor Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Oil-Free Piston Compressor Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Oil-Free Piston Compressor Production (2021-2032) & (K Units)

Figure 5. World Oil-Free Piston Compressor Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Oil-Free Piston Compressor Production Value Market Share by Region (2021-2032)

Figure 7. World Oil-Free Piston Compressor Production Market Share by Region (2021-2032)

Figure 8. North America Oil-Free Piston Compressor Production (2021-2032) & (K Units)

Figure 9. Europe Oil-Free Piston Compressor Production (2021-2032) & (K Units)

Figure 10. China Oil-Free Piston Compressor Production (2021-2032) & (K Units)

Figure 11. Japan Oil-Free Piston Compressor Production (2021-2032) & (K Units)

Figure 12. Oil-Free Piston Compressor Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Oil-Free Piston Compressor Consumption (2021-2032) & (K Units)

Figure 15. World Oil-Free Piston Compressor Consumption Market Share by Region (2021-2032)

Figure 16. United States Oil-Free Piston Compressor Consumption (2021-2032) & (K Units)

Figure 17. China Oil-Free Piston Compressor Consumption (2021-2032) & (K Units)

Figure 18. Europe Oil-Free Piston Compressor Consumption (2021-2032) & (K Units)

Figure 19. Japan Oil-Free Piston Compressor Consumption (2021-2032) & (K Units)

Figure 20. South Korea Oil-Free Piston Compressor Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Oil-Free Piston Compressor Consumption (2021-2032) & (K Units)

Figure 22. India Oil-Free Piston Compressor Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Oil-Free Piston Compressor by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Oil-Free Piston Compressor Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Oil-Free Piston Compressor

Markets in 2025

Figure 26. United States VS China: Oil-Free Piston Compressor Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Oil-Free Piston Compressor Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Oil-Free Piston Compressor Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Oil-Free Piston Compressor Production Market Share 2025

Figure 30. China Based Manufacturers Oil-Free Piston Compressor Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Oil-Free Piston Compressor Production Market Share 2025

Figure 32. World Oil-Free Piston Compressor Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Oil-Free Piston Compressor Production Value Market Share by Type in 2025

Figure 34. 0-160 kW

Figure 35. 161-250 kW

Figure 36. 251-355 kW

Figure 37. Above 356 kW

Figure 38. World Oil-Free Piston Compressor Production Market Share by Type (2021-2032)

Figure 39. World Oil-Free Piston Compressor Production Value Market Share by Type (2021-2032)

Figure 40. World Oil-Free Piston Compressor Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. World Oil-Free Piston Compressor Production Value by Form, (USD Million), 2021 & 2025 & 2032

Figure 42. World Oil-Free Piston Compressor Production Value Market Share by Form in 2025

Figure 43. Scroll Compressor

Figure 44. Horizontal Type Compressor

Figure 45. World Oil-Free Piston Compressor Production Market Share by Form (2021-2032)

Figure 46. World Oil-Free Piston Compressor Production Value Market Share by Form (2021-2032)

Figure 47. World Oil-Free Piston Compressor Average Price by Form (2021-2032) & (US\$/Unit)

Figure 48. World Oil-Free Piston Compressor Production Value by Cooling Method, (USD Million), 2021 & 2025 & 2032

Figure 49. World Oil-Free Piston Compressor Production Value Market Share by Cooling Method in 2025

Figure 50. Water-cooled

Figure 51. Air-cooled

Figure 52. World Oil-Free Piston Compressor Production Market Share by Cooling Method (2021-2032)

Figure 53. World Oil-Free Piston Compressor Production Value Market Share by Cooling Method (2021-2032)

Figure 54. World Oil-Free Piston Compressor Average Price by Cooling Method (2021-2032) & (US\$/Unit)

Figure 55. World Oil-Free Piston Compressor Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World Oil-Free Piston Compressor Production Value Market Share by Application in 2025

Figure 57. Medical

Figure 58. Chemical

Figure 59. Vehicle Transport

Figure 60. Others

Figure 61. World Oil-Free Piston Compressor Production Market Share by Application (2021-2032)

Figure 62. World Oil-Free Piston Compressor Production Value Market Share by Application (2021-2032)

Figure 63. World Oil-Free Piston Compressor Average Price by Application (2021-2032) & (US\$/Unit)

Figure 64. Oil-Free Piston Compressor Industry Chain

Figure 65. Oil-Free Piston Compressor Procurement Model

Figure 66. Oil-Free Piston Compressor Sales Model

Figure 67. Oil-Free Piston Compressor Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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