

Global Piston Rod Seal Market Growth 2025-2031

<https://marketpublishers.com/r/G2EE8BD80055EN.html>

Date: February 2025

Pages: 143

Price: US\$ 3,660.00 (Single User License)

ID: G2EE8BD80055EN

Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

The global Piston Rod Seal market size is predicted to grow from US\$ 599 million in 2025 to US\$ 807 million in 2031; it is expected to grow at a CAGR of 5.1% from 2025 to 2031.

A piston rod seal, also known as a rod seal or shaft seal, is a type of mechanical seal used in hydraulic and pneumatic systems to prevent the leakage of fluid from the cylinder along the piston rod. It is an essential component in these systems to maintain their efficiency and prevent contamination of the surrounding environment.

Growing Demand in Various Industries: Piston rod seals are essential components in hydraulic and pneumatic systems, which are used in a wide range of industries, including automotive, construction, manufacturing, and oil and gas. The demand for these seals is closely tied to the health of these industries. An overall increase in industrial activity can drive the growth of the piston rod seal market.

Focus on Energy Efficiency: Environmental concerns and a push for energy-efficient solutions have driven a trend toward the development of piston rod seals that reduce friction and leakage. Manufacturers have been working to design seals that enhance the efficiency of hydraulic and pneumatic systems, which can lead to cost savings and reduced environmental impact.

Advanced Material Development: The development of advanced materials for piston rod seals has been a notable trend. High-performance materials, such as polyurethane, PTFE (polytetrafluoroethylene), and other specialized compounds, are being used to improve the durability and performance of seals. These materials offer better resistance to wear, temperature extremes, and aggressive fluids.

LP Information, Inc. (LPI) ' newest research report, the "Piston Rod Seal Industry Forecast" looks at past sales and reviews total world Piston Rod Seal sales in 2024, providing a comprehensive analysis by region and market sector of projected Piston Rod Seal sales for 2025 through 2031. With Piston Rod Seal sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Piston Rod Seal industry.

This Insight Report provides a comprehensive analysis of the global Piston Rod Seal 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 Piston Rod Seal portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Piston Rod Seal market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Piston Rod Seal 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 Piston Rod Seal.

This report presents a comprehensive overview, market shares, and growth opportunities of Piston Rod Seal market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Polyurethane

Rubber

Others

Segmentation by Application:

Hydraulic Industry

Construction Machinery

Automotive

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.

SKF

Parker Hannifin

Freudenberg Sealing Technologies

Trelleborg

BORSIG

Gallagher Fluid Seals

Hallite

Sealink Corp

KACO

HUNGER Dichtungen

HAWE Hydraulik

ElringKlinger Kunststofftechnik

AFT Fluorotec

Roger Zatkoff

Pacific Seals

DMR Seals

Voneseals

Burckhardt Compression

Aston Seals

Key Questions Addressed in this Report

What is the 10-year outlook for the global Piston Rod Seal market?

What factors are driving Piston Rod Seal market growth, globally and by region?

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

How do Piston Rod Seal market opportunities vary by end market size?

How does Piston Rod Seal 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 Piston Rod Seal Annual Sales 2020-2031
 - 2.1.2 World Current & Future Analysis for Piston Rod Seal by Geographic Region, 2020, 2024 & 2031
 - 2.1.3 World Current & Future Analysis for Piston Rod Seal by Country/Region, 2020, 2024 & 2031
- 2.2 Piston Rod Seal Segment by Type
 - 2.2.1 Polyurethane
 - 2.2.2 Rubber
 - 2.2.3 Others
- 2.3 Piston Rod Seal Sales by Type
 - 2.3.1 Global Piston Rod Seal Sales Market Share by Type (2020-2025)
 - 2.3.2 Global Piston Rod Seal Revenue and Market Share by Type (2020-2025)
 - 2.3.3 Global Piston Rod Seal Sale Price by Type (2020-2025)
- 2.4 Piston Rod Seal Segment by Application
 - 2.4.1 Hydraulic Industry
 - 2.4.2 Construction Machinery
 - 2.4.3 Automotive
 - 2.4.4 Others
- 2.5 Piston Rod Seal Sales by Application
 - 2.5.1 Global Piston Rod Seal Sale Market Share by Application (2020-2025)
 - 2.5.2 Global Piston Rod Seal Revenue and Market Share by Application (2020-2025)
 - 2.5.3 Global Piston Rod Seal Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

- 3.1 Global Piston Rod Seal Breakdown Data by Company
 - 3.1.1 Global Piston Rod Seal Annual Sales by Company (2020-2025)
 - 3.1.2 Global Piston Rod Seal Sales Market Share by Company (2020-2025)
- 3.2 Global Piston Rod Seal Annual Revenue by Company (2020-2025)
 - 3.2.1 Global Piston Rod Seal Revenue by Company (2020-2025)
 - 3.2.2 Global Piston Rod Seal Revenue Market Share by Company (2020-2025)
- 3.3 Global Piston Rod Seal Sale Price by Company
- 3.4 Key Manufacturers Piston Rod Seal Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Piston Rod Seal Product Location Distribution
 - 3.4.2 Players Piston Rod Seal Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR PISTON ROD SEAL BY GEOGRAPHIC REGION

- 4.1 World Historic Piston Rod Seal Market Size by Geographic Region (2020-2025)
 - 4.1.1 Global Piston Rod Seal Annual Sales by Geographic Region (2020-2025)
 - 4.1.2 Global Piston Rod Seal Annual Revenue by Geographic Region (2020-2025)
- 4.2 World Historic Piston Rod Seal Market Size by Country/Region (2020-2025)
 - 4.2.1 Global Piston Rod Seal Annual Sales by Country/Region (2020-2025)
 - 4.2.2 Global Piston Rod Seal Annual Revenue by Country/Region (2020-2025)
- 4.3 Americas Piston Rod Seal Sales Growth
- 4.4 APAC Piston Rod Seal Sales Growth
- 4.5 Europe Piston Rod Seal Sales Growth
- 4.6 Middle East & Africa Piston Rod Seal Sales Growth

5 AMERICAS

- 5.1 Americas Piston Rod Seal Sales by Country
 - 5.1.1 Americas Piston Rod Seal Sales by Country (2020-2025)
 - 5.1.2 Americas Piston Rod Seal Revenue by Country (2020-2025)
- 5.2 Americas Piston Rod Seal Sales by Type (2020-2025)
- 5.3 Americas Piston Rod Seal Sales by Application (2020-2025)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Piston Rod Seal Sales by Region

6.1.1 APAC Piston Rod Seal Sales by Region (2020-2025)

6.1.2 APAC Piston Rod Seal Revenue by Region (2020-2025)

6.2 APAC Piston Rod Seal Sales by Type (2020-2025)

6.3 APAC Piston Rod Seal Sales by Application (2020-2025)

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 Piston Rod Seal by Country

7.1.1 Europe Piston Rod Seal Sales by Country (2020-2025)

7.1.2 Europe Piston Rod Seal Revenue by Country (2020-2025)

7.2 Europe Piston Rod Seal Sales by Type (2020-2025)

7.3 Europe Piston Rod Seal Sales by Application (2020-2025)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Piston Rod Seal by Country

8.1.1 Middle East & Africa Piston Rod Seal Sales by Country (2020-2025)

8.1.2 Middle East & Africa Piston Rod Seal Revenue by Country (2020-2025)

8.2 Middle East & Africa Piston Rod Seal Sales by Type (2020-2025)

8.3 Middle East & Africa Piston Rod Seal Sales by Application (2020-2025)

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 Piston Rod Seal

10.3 Manufacturing Process Analysis of Piston Rod Seal

10.4 Industry Chain Structure of Piston Rod Seal

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Piston Rod Seal Distributors

11.3 Piston Rod Seal Customer

12 WORLD FORECAST REVIEW FOR PISTON ROD SEAL BY GEOGRAPHIC REGION

12.1 Global Piston Rod Seal Market Size Forecast by Region

12.1.1 Global Piston Rod Seal Forecast by Region (2026-2031)

12.1.2 Global Piston Rod Seal Annual Revenue Forecast by Region (2026-2031)

12.2 Americas Forecast by Country (2026-2031)

12.3 APAC Forecast by Region (2026-2031)

12.4 Europe Forecast by Country (2026-2031)

12.5 Middle East & Africa Forecast by Country (2026-2031)

12.6 Global Piston Rod Seal Forecast by Type (2026-2031)

12.7 Global Piston Rod Seal Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 SKF

13.1.1 SKF Company Information

13.1.2 SKF Piston Rod Seal Product Portfolios and Specifications

13.1.3 SKF Piston Rod Seal Sales, Revenue, Price and Gross Margin (2020-2025)

13.1.4 SKF Main Business Overview

13.1.5 SKF Latest Developments

13.2 Parker Hannifin

13.2.1 Parker Hannifin Company Information

13.2.2 Parker Hannifin Piston Rod Seal Product Portfolios and Specifications

13.2.3 Parker Hannifin Piston Rod Seal Sales, Revenue, Price and Gross Margin (2020-2025)

13.2.4 Parker Hannifin Main Business Overview

13.2.5 Parker Hannifin Latest Developments

13.3 Freudenberg Sealing Technologies

13.3.1 Freudenberg Sealing Technologies Company Information

13.3.2 Freudenberg Sealing Technologies Piston Rod Seal Product Portfolios and Specifications

13.3.3 Freudenberg Sealing Technologies Piston Rod Seal Sales, Revenue, Price and Gross Margin (2020-2025)

13.3.4 Freudenberg Sealing Technologies Main Business Overview

13.3.5 Freudenberg Sealing Technologies Latest Developments

13.4 Trelleborg

13.4.1 Trelleborg Company Information

13.4.2 Trelleborg Piston Rod Seal Product Portfolios and Specifications

13.4.3 Trelleborg Piston Rod Seal Sales, Revenue, Price and Gross Margin (2020-2025)

13.4.4 Trelleborg Main Business Overview

13.4.5 Trelleborg Latest Developments

13.5 BORSIG

13.5.1 BORSIG Company Information

13.5.2 BORSIG Piston Rod Seal Product Portfolios and Specifications

13.5.3 BORSIG Piston Rod Seal Sales, Revenue, Price and Gross Margin (2020-2025)

13.5.4 BORSIG Main Business Overview

13.5.5 BORSIG Latest Developments

13.6 Gallagher Fluid Seals

13.6.1 Gallagher Fluid Seals Company Information

13.6.2 Gallagher Fluid Seals Piston Rod Seal Product Portfolios and Specifications

13.6.3 Gallagher Fluid Seals Piston Rod Seal Sales, Revenue, Price and Gross Margin (2020-2025)

13.6.4 Gallagher Fluid Seals Main Business Overview

13.6.5 Gallagher Fluid Seals Latest Developments

13.7 Hallite

13.7.1 Hallite Company Information

13.7.2 Hallite Piston Rod Seal Product Portfolios and Specifications

13.7.3 Hallite Piston Rod Seal Sales, Revenue, Price and Gross Margin (2020-2025)

13.7.4 Hallite Main Business Overview

13.7.5 Hallite Latest Developments

13.8 Sealink Corp

13.8.1 Sealink Corp Company Information

13.8.2 Sealink Corp Piston Rod Seal Product Portfolios and Specifications

13.8.3 Sealink Corp Piston Rod Seal Sales, Revenue, Price and Gross Margin (2020-2025)

13.8.4 Sealink Corp Main Business Overview

13.8.5 Sealink Corp Latest Developments

13.9 KACO

13.9.1 KACO Company Information

13.9.2 KACO Piston Rod Seal Product Portfolios and Specifications

13.9.3 KACO Piston Rod Seal Sales, Revenue, Price and Gross Margin (2020-2025)

13.9.4 KACO Main Business Overview

13.9.5 KACO Latest Developments

13.10 HUNGER Dichtungen

13.10.1 HUNGER Dichtungen Company Information

13.10.2 HUNGER Dichtungen Piston Rod Seal Product Portfolios and Specifications

13.10.3 HUNGER Dichtungen Piston Rod Seal Sales, Revenue, Price and Gross Margin (2020-2025)

13.10.4 HUNGER Dichtungen Main Business Overview

13.10.5 HUNGER Dichtungen Latest Developments

13.11 HAWE Hydraulik

13.11.1 HAWE Hydraulik Company Information

13.11.2 HAWE Hydraulik Piston Rod Seal Product Portfolios and Specifications

13.11.3 HAWE Hydraulik Piston Rod Seal Sales, Revenue, Price and Gross Margin (2020-2025)

13.11.4 HAWE Hydraulik Main Business Overview

- 13.11.5 HAWE Hydraulik Latest Developments
- 13.12 ElringKlinger Kunststofftechnik
 - 13.12.1 ElringKlinger Kunststofftechnik Company Information
 - 13.12.2 ElringKlinger Kunststofftechnik Piston Rod Seal Product Portfolios and Specifications
 - 13.12.3 ElringKlinger Kunststofftechnik Piston Rod Seal Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.12.4 ElringKlinger Kunststofftechnik Main Business Overview
 - 13.12.5 ElringKlinger Kunststofftechnik Latest Developments
- 13.13 AFT Fluorotec
 - 13.13.1 AFT Fluorotec Company Information
 - 13.13.2 AFT Fluorotec Piston Rod Seal Product Portfolios and Specifications
 - 13.13.3 AFT Fluorotec Piston Rod Seal Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.13.4 AFT Fluorotec Main Business Overview
 - 13.13.5 AFT Fluorotec Latest Developments
- 13.14 Roger Zatkoff
 - 13.14.1 Roger Zatkoff Company Information
 - 13.14.2 Roger Zatkoff Piston Rod Seal Product Portfolios and Specifications
 - 13.14.3 Roger Zatkoff Piston Rod Seal Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.14.4 Roger Zatkoff Main Business Overview
 - 13.14.5 Roger Zatkoff Latest Developments
- 13.15 Pacific Seals
 - 13.15.1 Pacific Seals Company Information
 - 13.15.2 Pacific Seals Piston Rod Seal Product Portfolios and Specifications
 - 13.15.3 Pacific Seals Piston Rod Seal Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.15.4 Pacific Seals Main Business Overview
 - 13.15.5 Pacific Seals Latest Developments
- 13.16 DMR Seals
 - 13.16.1 DMR Seals Company Information
 - 13.16.2 DMR Seals Piston Rod Seal Product Portfolios and Specifications
 - 13.16.3 DMR Seals Piston Rod Seal Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.16.4 DMR Seals Main Business Overview
 - 13.16.5 DMR Seals Latest Developments
- 13.17 Voneseals
 - 13.17.1 Voneseals Company Information

- 13.17.2 Voneseals Piston Rod Seal Product Portfolios and Specifications
- 13.17.3 Voneseals Piston Rod Seal Sales, Revenue, Price and Gross Margin (2020-2025)
- 13.17.4 Voneseals Main Business Overview
- 13.17.5 Voneseals Latest Developments
- 13.18 Burckhardt Compression
 - 13.18.1 Burckhardt Compression Company Information
 - 13.18.2 Burckhardt Compression Piston Rod Seal Product Portfolios and Specifications
 - 13.18.3 Burckhardt Compression Piston Rod Seal Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.18.4 Burckhardt Compression Main Business Overview
 - 13.18.5 Burckhardt Compression Latest Developments
- 13.19 Aston Seals
 - 13.19.1 Aston Seals Company Information
 - 13.19.2 Aston Seals Piston Rod Seal Product Portfolios and Specifications
 - 13.19.3 Aston Seals Piston Rod Seal Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.19.4 Aston Seals Main Business Overview
 - 13.19.5 Aston Seals Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

LIST OF TABLES

- Table 1. Piston Rod Seal Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Table 2. Piston Rod Seal Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ millions)
- Table 3. Major Players of Polyurethane
- Table 4. Major Players of Rubber
- Table 5. Major Players of Others
- Table 6. Global Piston Rod Seal Sales byType (2020-2025) & (K Units)
- Table 7. Global Piston Rod Seal Sales Market Share byType (2020-2025)
- Table 8. Global Piston Rod Seal Revenue byType (2020-2025) & (\$ million)
- Table 9. Global Piston Rod Seal Revenue Market Share byType (2020-2025)
- Table 10. Global Piston Rod Seal Sale Price byType (2020-2025) & (US\$/Unit)
- Table 11. Global Piston Rod Seal Sale by Application (2020-2025) & (K Units)

Table 12. Global Piston Rod Seal Sale Market Share by Application (2020-2025)

Table 13. Global Piston Rod Seal Revenue by Application (2020-2025) & (\$ million)

Table 14. Global Piston Rod Seal Revenue Market Share by Application (2020-2025)

Table 15. Global Piston Rod Seal Sale Price by Application (2020-2025) & (US\$/Unit)

Table 16. Global Piston Rod Seal Sales by Company (2020-2025) & (K Units)

Table 17. Global Piston Rod Seal Sales Market Share by Company (2020-2025)

Table 18. Global Piston Rod Seal Revenue by Company (2020-2025) & (\$ millions)

Table 19. Global Piston Rod Seal Revenue Market Share by Company (2020-2025)

Table 20. Global Piston Rod Seal Sale Price by Company (2020-2025) & (US\$/Unit)

Table 21. Key Manufacturers Piston Rod Seal Producing Area Distribution and Sales Area

Table 22. Players Piston Rod Seal Products Offered

Table 23. Piston Rod Seal Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

Table 24. New Products and Potential Entrants

Table 25. Market M&A Activity & Strategy

Table 26. Global Piston Rod Seal Sales by Geographic Region (2020-2025) & (K Units)

Table 27. Global Piston Rod Seal Sales Market Share Geographic Region (2020-2025)

Table 28. Global Piston Rod Seal Revenue by Geographic Region (2020-2025) & (\$ millions)

Table 29. Global Piston Rod Seal Revenue Market Share by Geographic Region (2020-2025)

Table 30. Global Piston Rod Seal Sales by Country/Region (2020-2025) & (K Units)

Table 31. Global Piston Rod Seal Sales Market Share by Country/Region (2020-2025)

Table 32. Global Piston Rod Seal Revenue by Country/Region (2020-2025) & (\$ millions)

Table 33. Global Piston Rod Seal Revenue Market Share by Country/Region (2020-2025)

Table 34. Americas Piston Rod Seal Sales by Country (2020-2025) & (K Units)

Table 35. Americas Piston Rod Seal Sales Market Share by Country (2020-2025)

Table 36. Americas Piston Rod Seal Revenue by Country (2020-2025) & (\$ millions)

Table 37. Americas Piston Rod Seal Sales by Type (2020-2025) & (K Units)

Table 38. Americas Piston Rod Seal Sales by Application (2020-2025) & (K Units)

Table 39. APAC Piston Rod Seal Sales by Region (2020-2025) & (K Units)

Table 40. APAC Piston Rod Seal Sales Market Share by Region (2020-2025)

Table 41. APAC Piston Rod Seal Revenue by Region (2020-2025) & (\$ millions)

Table 42. APAC Piston Rod Seal Sales by Type (2020-2025) & (K Units)

Table 43. APAC Piston Rod Seal Sales by Application (2020-2025) & (K Units)

Table 44. Europe Piston Rod Seal Sales by Country (2020-2025) & (K Units)

Table 45. Europe Piston Rod Seal Revenue by Country (2020-2025) & (\$ millions)

Table 46. Europe Piston Rod Seal Sales byType (2020-2025) & (K Units)
Table 47. Europe Piston Rod Seal Sales by Application (2020-2025) & (K Units)
Table 48. Middle East & Africa Piston Rod Seal Sales by Country (2020-2025) & (K Units)
Table 49. Middle East & Africa Piston Rod Seal Revenue Market Share by Country (2020-2025)
Table 50. Middle East & Africa Piston Rod Seal Sales byType (2020-2025) & (K Units)
Table 51. Middle East & Africa Piston Rod Seal Sales by Application (2020-2025) & (K Units)
Table 52. Key Market Drivers & Growth Opportunities of Piston Rod Seal
Table 53. Key Market Challenges & Risks of Piston Rod Seal
Table 54. Key IndustryTrends of Piston Rod Seal
Table 55. Piston Rod Seal Raw Material
Table 56. Key Suppliers of Raw Materials
Table 57. Piston Rod Seal Distributors List
Table 58. Piston Rod Seal Customer List
Table 59. Global Piston Rod Seal SalesForecast by Region (2026-2031) & (K Units)
Table 60. Global Piston Rod Seal RevenueForecast by Region (2026-2031) & (\$ millions)
Table 61. Americas Piston Rod Seal SalesForecast by Country (2026-2031) & (K Units)
Table 62. Americas Piston Rod Seal Annual RevenueForecast by Country (2026-2031) & (\$ millions)
Table 63. APAC Piston Rod Seal SalesForecast by Region (2026-2031) & (K Units)
Table 64. APAC Piston Rod Seal Annual RevenueForecast by Region (2026-2031) & (\$ millions)
Table 65. Europe Piston Rod Seal SalesForecast by Country (2026-2031) & (K Units)
Table 66. Europe Piston Rod Seal RevenueForecast by Country (2026-2031) & (\$ millions)
Table 67. Middle East & Africa Piston Rod Seal SalesForecast by Country (2026-2031) & (K Units)
Table 68. Middle East & Africa Piston Rod Seal RevenueForecast by Country (2026-2031) & (\$ millions)
Table 69. Global Piston Rod Seal SalesForecast byType (2026-2031) & (K Units)
Table 70. Global Piston Rod Seal RevenueForecast byType (2026-2031) & (\$ millions)
Table 71. Global Piston Rod Seal SalesForecast by Application (2026-2031) & (K Units)
Table 72. Global Piston Rod Seal RevenueForecast by Application (2026-2031) & (\$ millions)
Table 73. SKF Basic Information, Piston Rod Seal Manufacturing Base, Sales Area and Its Competitors

Table 74. SKF Piston Rod Seal Product Portfolios and Specifications

Table 75. SKF Piston Rod Seal Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 76. SKF Main Business

Table 77. SKF Latest Developments

Table 78. Parker Hannifin Basic Information, Piston Rod Seal Manufacturing Base, Sales Area and Its Competitors

Table 79. Parker Hannifin Piston Rod Seal Product Portfolios and Specifications

Table 80. Parker Hannifin Piston Rod Seal Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 81. Parker Hannifin Main Business

Table 82. Parker Hannifin Latest Developments

Table 83. Freudenberg Sealing Technologies Basic Information, Piston Rod Seal Manufacturing Base, Sales Area and Its Competitors

Table 84. Freudenberg Sealing Technologies Piston Rod Seal Product Portfolios and Specifications

Table 85. Freudenberg Sealing Technologies Piston Rod Seal Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 86. Freudenberg Sealing Technologies Main Business

Table 87. Freudenberg Sealing Technologies Latest Developments

Table 88. Trelleborg Basic Information, Piston Rod Seal Manufacturing Base, Sales Area and Its Competitors

Table 89. Trelleborg Piston Rod Seal Product Portfolios and Specifications

Table 90. Trelleborg Piston Rod Seal Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 91. Trelleborg Main Business

Table 92. Trelleborg Latest Developments

Table 93. BORSIG Basic Information, Piston Rod Seal Manufacturing Base, Sales Area and Its Competitors

Table 94. BORSIG Piston Rod Seal Product Portfolios and Specifications

Table 95. BORSIG Piston Rod Seal Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 96. BORSIG Main Business

Table 97. BORSIG Latest Developments

Table 98. GallagherFluid Seals Basic Information, Piston Rod Seal Manufacturing Base, Sales Area and Its Competitors

Table 99. GallagherFluid Seals Piston Rod Seal Product Portfolios and Specifications

Table 100. GallagherFluid Seals Piston Rod Seal Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 101. GallagherFluid Seals Main Business

Table 102. GallagherFluid Seals Latest Developments

Table 103. Hallite Basic Information, Piston Rod Seal Manufacturing Base, Sales Area and Its Competitors

Table 104. Hallite Piston Rod Seal Product Portfolios and Specifications

Table 105. Hallite Piston Rod Seal Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 106. Hallite Main Business

Table 107. Hallite Latest Developments

Table 108. Sealink Corp Basic Information, Piston Rod Seal Manufacturing Base, Sales Area and Its Competitors

Table 109. Sealink Corp Piston Rod Seal Product Portfolios and Specifications

Table 110. Sealink Corp Piston Rod Seal Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 111. Sealink Corp Main Business

Table 112. Sealink Corp Latest Developments

Table 113. KACO Basic Information, Piston Rod Seal Manufacturing Base, Sales Area and Its Competitors

Table 114. KACO Piston Rod Seal Product Portfolios and Specifications

Table 115. KACO Piston Rod Seal Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 116. KACO Main Business

Table 117. KACO Latest Developments

Table 118. HUNGER Dichtungen Basic Information, Piston Rod Seal Manufacturing Base, Sales Area and Its Competitors

Table 119. HUNGER Dichtungen Piston Rod Seal Product Portfolios and Specifications

Table 120. HUNGER Dichtungen Piston Rod Seal Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 121. HUNGER Dichtungen Main Business

Table 122. HUNGER Dichtungen Latest Developments

Table 123. HAWE Hydraulik Basic Information, Piston Rod Seal Manufacturing Base, Sales Area and Its Competitors

Table 124. HAWE Hydraulik Piston Rod Seal Product Portfolios and Specifications

Table 125. HAWE Hydraulik Piston Rod Seal Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 126. HAWE Hydraulik Main Business

Table 127. HAWE Hydraulik Latest Developments

Table 128. ElringKlinger Kunststofftechnik Basic Information, Piston Rod Seal Manufacturing Base, Sales Area and Its Competitors

Table 129. ElringKlinger Kunststofftechnik Piston Rod Seal Product Portfolios and Specifications

Table 130. ElringKlinger Kunststofftechnik Piston Rod Seal Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 131. ElringKlinger Kunststofftechnik Main Business

Table 132. ElringKlinger Kunststofftechnik Latest Developments

Table 133. AFTFluorotec Basic Information, Piston Rod Seal Manufacturing Base, Sales Area and Its Competitors

Table 134. AFTFluorotec Piston Rod Seal Product Portfolios and Specifications

Table 135. AFTFluorotec Piston Rod Seal Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 136. AFTFluorotec Main Business

Table 137. AFTFluorotec Latest Developments

Table 138. Roger Zatkoff Basic Information, Piston Rod Seal Manufacturing Base, Sales Area and Its Competitors

Table 139. Roger Zatkoff Piston Rod Seal Product Portfolios and Specifications

Table 140. Roger Zatkoff Piston Rod Seal Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 141. Roger Zatkoff Main Business

Table 142. Roger Zatkoff Latest Developments

Table 143. Pacific Seals Basic Information, Piston Rod Seal Manufacturing Base, Sales Area and Its Competitors

Table 144. Pacific Seals Piston Rod Seal Product Portfolios and Specifications

Table 145. Pacific Seals Piston Rod Seal Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 146. Pacific Seals Main Business

Table 147. Pacific Seals Latest Developments

Table 148. DMR Seals Basic Information, Piston Rod Seal Manufacturing Base, Sales Area and Its Competitors

Table 149. DMR Seals Piston Rod Seal Product Portfolios and Specifications

Table 150. DMR Seals Piston Rod Seal Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 151. DMR Seals Main Business

Table 152. DMR Seals Latest Developments

Table 153. Voneseals Basic Information, Piston Rod Seal Manufacturing Base, Sales Area and Its Competitors

Table 154. Voneseals Piston Rod Seal Product Portfolios and Specifications

Table 155. Voneseals Piston Rod Seal Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 156. Voneseals Main Business

Table 157. Voneseals Latest Developments

Table 158. Burckhardt Compression Basic Information, Piston Rod Seal Manufacturing Base, Sales Area and Its Competitors

Table 159. Burckhardt Compression Piston Rod Seal Product Portfolios and Specifications

Table 160. Burckhardt Compression Piston Rod Seal Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 161. Burckhardt Compression Main Business

Table 162. Burckhardt Compression Latest Developments

Table 163. Aston Seals Basic Information, Piston Rod Seal Manufacturing Base, Sales Area and Its Competitors

Table 164. Aston Seals Piston Rod Seal Product Portfolios and Specifications

Table 165. Aston Seals Piston Rod Seal Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 166. Aston Seals Main Business

Table 167. Aston Seals Latest Developments

LIST OFFIGURES

Figure 1. Picture of Piston Rod Seal

Figure 2. Piston Rod Seal Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global Piston Rod Seal Sales Growth Rate 2020-2031 (K Units)

Figure 7. Global Piston Rod Seal Revenue Growth Rate 2020-2031 (\$ millions)

Figure 8. Piston Rod Seal Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)

Figure 9. Piston Rod Seal Sales Market Share by Country/Region (2024)

Figure 10. Piston Rod Seal Sales Market Share by Country/Region (2020, 2024 & 2031)

Figure 11. Product Picture of Polyurethane

Figure 12. Product Picture of Rubber

Figure 13. Product Picture of Others

Figure 14. Global Piston Rod Seal Sales Market Share byType in 2025

Figure 15. Global Piston Rod Seal Revenue Market Share byType (2020-2025)

Figure 16. Piston Rod Seal Consumed in Hydraulic Industry

Figure 17. Global Piston Rod Seal Market: Hydraulic Industry (2020-2025) & (K Units)

Figure 18. Piston Rod Seal Consumed in Construction Machinery

Figure 19. Global Piston Rod Seal Market: Construction Machinery (2020-2025) & (K Units)

Figure 20. Piston Rod Seal Consumed in Automotive

Figure 21. Global Piston Rod Seal Market: Automotive (2020-2025) & (K Units)

Figure 22. Piston Rod Seal Consumed in Others

Figure 23. Global Piston Rod Seal Market: Others (2020-2025) & (K Units)

Figure 24. Global Piston Rod Seal Sales Market Share by Application (2024)

Figure 25. Global Piston Rod Seal Revenue Market Share by Application in 2025

Figure 26. Piston Rod Seal Sales by Company in 2025 (K Units)

Figure 27. Global Piston Rod Seal Sales Market Share by Company in 2025

Figure 28. Piston Rod Seal Revenue by Company in 2025 (\$ millions)

Figure 29. Global Piston Rod Seal Revenue Market Share by Company in 2025

Figure 30. Global Piston Rod Seal Sales Market Share by Geographic Region (2020-2025)

Figure 31. Global Piston Rod Seal Revenue Market Share by Geographic Region in 2025

Figure 32. Americas Piston Rod Seal Sales 2020-2025 (K Units)

Figure 33. Americas Piston Rod Seal Revenue 2020-2025 (\$ millions)

Figure 34. APAC Piston Rod Seal Sales 2020-2025 (K Units)

Figure 35. APAC Piston Rod Seal Revenue 2020-2025 (\$ millions)

Figure 36. Europe Piston Rod Seal Sales 2020-2025 (K Units)

Figure 37. Europe Piston Rod Seal Revenue 2020-2025 (\$ millions)

Figure 38. Middle East & Africa Piston Rod Seal Sales 2020-2025 (K Units)

Figure 39. Middle East & Africa Piston Rod Seal Revenue 2020-2025 (\$ millions)

Figure 40. Americas Piston Rod Seal Sales Market Share by Country in 2025

Figure 41. Americas Piston Rod Seal Revenue Market Share by Country (2020-2025)

Figure 42. Americas Piston Rod Seal Sales Market Share by Type (2020-2025)

Figure 43. Americas Piston Rod Seal Sales Market Share by Application (2020-2025)

Figure 44. United States Piston Rod Seal Revenue Growth 2020-2025 (\$ millions)

Figure 45. Canada Piston Rod Seal Revenue Growth 2020-2025 (\$ millions)

Figure 46. Mexico Piston Rod Seal Revenue Growth 2020-2025 (\$ millions)

Figure 47. Brazil Piston Rod Seal Revenue Growth 2020-2025 (\$ millions)

Figure 48. APAC Piston Rod Seal Sales Market Share by Region in 2025

Figure 49. APAC Piston Rod Seal Revenue Market Share by Region (2020-2025)

Figure 50. APAC Piston Rod Seal Sales Market Share by Type (2020-2025)

Figure 51. APAC Piston Rod Seal Sales Market Share by Application (2020-2025)

Figure 52. China Piston Rod Seal Revenue Growth 2020-2025 (\$ millions)

- Figure 53. Japan Piston Rod Seal Revenue Growth 2020-2025 (\$ millions)
- Figure 54. South Korea Piston Rod Seal Revenue Growth 2020-2025 (\$ millions)
- Figure 55. Southeast Asia Piston Rod Seal Revenue Growth 2020-2025 (\$ millions)
- Figure 56. India Piston Rod Seal Revenue Growth 2020-2025 (\$ millions)
- Figure 57. Australia Piston Rod Seal Revenue Growth 2020-2025 (\$ millions)
- Figure 58. ChinaTaiwan Piston Rod Seal Revenue Growth 2020-2025 (\$ millions)
- Figure 59. Europe Piston Rod Seal Sales Market Share by Country in 2025
- Figure 60. Europe Piston Rod Seal Revenue Market Share by Country (2020-2025)
- Figure 61. Europe Piston Rod Seal Sales Market Share byType (2020-2025)
- Figure 62. Europe Piston Rod Seal Sales Market Share by Application (2020-2025)
- Figure 63. Germany Piston Rod Seal Revenue Growth 2020-2025 (\$ millions)
- Figure 64. France Piston Rod Seal Revenue Growth 2020-2025 (\$ millions)
- Figure 65. UK Piston Rod Seal Revenue Growth 2020-2025 (\$ millions)
- Figure 66. Italy Piston Rod Seal Revenue Growth 2020-2025 (\$ millions)
- Figure 67. Russia Piston Rod Seal Revenue Growth 2020-2025 (\$ millions)
- Figure 68. Middle East & Africa Piston Rod Seal Sales Market Share by Country (2020-2025)
- Figure 69. Middle East & Africa Piston Rod Seal Sales Market Share byType (2020-2025)
- Figure 70. Middle East & Africa Piston Rod Seal Sales Market Share by Application (2020-2025)
- Figure 71. Egypt Piston Rod Seal Revenue Growth 2020-2025 (\$ millions)
- Figure 72. South Africa Piston Rod Seal Revenue Growth 2020-2025 (\$ millions)
- Figure 73. Israel Piston Rod Seal Revenue Growth 2020-2025 (\$ millions)
- Figure 74. Turkey Piston Rod Seal Revenue Growth 2020-2025 (\$ millions)
- Figure 75. GCC Countries Piston Rod Seal Revenue Growth 2020-2025 (\$ millions)
- Figure 76. Manufacturing Cost Structure Analysis of Piston Rod Seal in 2025
- Figure 77. Manufacturing Process Analysis of Piston Rod Seal
- Figure 78. Industry Chain Structure of Piston Rod Seal
- Figure 79. Channels of Distribution
- Figure 80. Global Piston Rod Seal Sales MarketForecast by Region (2026-2031)
- Figure 81. Global Piston Rod Seal Revenue Market ShareForecast by Region (2026-2031)
- Figure 82. Global Piston Rod Seal Sales Market ShareForecast byType (2026-2031)
- Figure 83. Global Piston Rod Seal Revenue Market ShareForecast byType (2026-2031)
- Figure 84. Global Piston Rod Seal Sales Market ShareForecast by Application (2026-2031)
- Figure 85. Global Piston Rod Seal Revenue Market ShareForecast by Application (2026-2031)

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