

Global Single Cartridge Mechanical Seals Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Single Cartridge Mechanical Seals market size is expected to reach \$ 301 million by 2032, rising at a market growth of 5.6% CAGR during the forecast period (2026-2032).

In 2025, global sales of Single Cartridge Mechanical Seals reached approximately 5 million units, with an average selling price of \$40. Single Cartridge Mechanical Seals are primarily used to prevent media leakage during the operation of industrial equipment (such as pumps, compressors, agitators, etc.), and are suitable for industries such as petroleum, chemical, food and beverage, and water treatment. This product has a simple structure and good sealing performance, and is widely used for sealing requirements in low- and medium-pressure equipment.

Upstream raw materials mainly include silicon carbide, ceramics, stainless steel, and rubber, accounting for approximately 70% of the cost. Downstream supply relationships are mainly with manufacturers of petrochemical, food processing, mining machinery, and water treatment equipment. Products are sold through equipment manufacturers and parts distributors. Global total production capacity is approximately 6 million units, with a gross profit margin between 25% and 30%, mainly affected by raw material prices, production processes, and economies of scale. In terms of downstream consumption, the chemical and petroleum industries account for the largest share (approximately 45%), with the remainder coming from water treatment, food, and mining machinery industries. Upstream material consumption is mainly concentrated in ceramics, silicon carbide, and stainless steel.

In terms of business opportunities, the monotube mechanical seal market will continue to grow due to increasing demands for industrial automation and efficient equipment operation. This is especially true in emerging markets, where accelerated industrialization is driving significant increases in demand. Furthermore, environmental regulations and requirements for high-efficiency equipment are prompting continuous

upgrades in sealing technology, creating innovative opportunities in the market. The market for Single Cartridge Mechanical Seals is in a phase of steady expansion, driven primarily by industrial equipment upgrades, the recovery of investment in the energy and chemical industries, and the increasing automation in global manufacturing. Due to its simple structure, moderate cost, and ease of maintenance, this product remains competitive in low- and medium-pressure applications, particularly in water treatment, food and beverage, fertilizer and chemical, and general pump industries, where it maintains a high adoption rate.

Market competition is gradually shifting from price-driven to reliability, wear resistance, and material upgrades. High-end applications are seeing a significant increase in demand for silicon carbide end faces, composite material springs, and low-leakage technologies, creating differentiation opportunities for companies with material R&D and precision machining capabilities. On the other hand, the continued expansion of equipment in downstream chemical and municipal water sectors is increasing the proportion of the replacement and maintenance market, resulting in sustained growth in existing inventory. However, the industry also faces challenges such as raw material price fluctuations and homogeneous competition in some low-end products. In the future, leading companies will differentiate themselves through improvements in product performance, supply chain stability, and service capabilities.

Overall, Single Cartridge Mechanical Seals will maintain stable growth driven by both incremental and existing market share, but the competitive landscape will further concentrate on leading companies with strong technological capabilities and mature quality systems.

This report studies the global Single Cartridge Mechanical Seals production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Single Cartridge Mechanical Seals 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 Single Cartridge Mechanical Seals that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Single Cartridge Mechanical Seals total production and demand, 2021-2032, (K Units)

Global Single Cartridge Mechanical Seals total production value, 2021-2032, (USD Million)

Global Single Cartridge Mechanical Seals production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Single Cartridge Mechanical Seals consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Single Cartridge Mechanical Seals domestic production, consumption, key domestic manufacturers and share

Global Single Cartridge Mechanical Seals production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Single Cartridge Mechanical Seals production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Single Cartridge Mechanical Seals production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Single Cartridge Mechanical Seals 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 Microtem, Flexaseal, QMSEALS, Tekhniseal, Sealcon, Sino-Seals, Quantech Seals, AESSEAL, Cosmos Seals India Pvt Ltd, TRISUN Ltd, 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 Single Cartridge Mechanical Seals 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 Single Cartridge Mechanical Seals Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Single Cartridge Mechanical Seals Market, Segmentation by Type:

Single-end Face

Double-end Face

Global Single Cartridge Mechanical Seals Market, Segmentation by Combination Category:

Silicon Carbide vs. Silicon Carbide

Silicon Carbide vs. Cemented Carbide

Cemented Carbide vs. Graphite

Others

Global Single Cartridge Mechanical Seals Market, Segmentation by Flushing Solution:

Self-rinsing

External Rinsing

Global Single Cartridge Mechanical Seals Market, Segmentation by Application:

Petroleum

Electricity

Food

Pharmaceuticals

Others

Companies Profiled:

Microtem

Flexaseal

QMSEALS

Tekhniseal

Sealcon

Sino-Seals

Quantech Seals

AESSEAL

Cosmos Seals India Pvt Ltd

TRISUN Ltd

Key Questions Answered:

1. How big is the global Single Cartridge Mechanical Seals market?
2. What is the demand of the global Single Cartridge Mechanical Seals market?
3. What is the year over year growth of the global Single Cartridge Mechanical Seals market?
4. What is the production and production value of the global Single Cartridge Mechanical Seals market?
5. Who are the key producers in the global Single Cartridge Mechanical Seals market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Single Cartridge Mechanical Seals Production Value by Manufacturer (2021-2026)

3.2 World Single Cartridge Mechanical Seals Production by Manufacturer (2021-2026)

3.3 World Single Cartridge Mechanical Seals Average Price by Manufacturer (2021-2026)

3.4 Single Cartridge Mechanical Seals Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Single Cartridge Mechanical Seals Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Single Cartridge Mechanical Seals in 2025

3.5.3 Global Concentration Ratios (CR8) for Single Cartridge Mechanical Seals in 2025

3.6 Single Cartridge Mechanical Seals Market: Overall Company Footprint Analysis

3.6.1 Single Cartridge Mechanical Seals Market: Region Footprint

3.6.2 Single Cartridge Mechanical Seals Market: Company Product Type Footprint

3.6.3 Single Cartridge Mechanical Seals 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: Single Cartridge Mechanical Seals Production Value Comparison

4.1.1 United States VS China: Single Cartridge Mechanical Seals Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Single Cartridge Mechanical Seals Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Single Cartridge Mechanical Seals Production Comparison

4.2.1 United States VS China: Single Cartridge Mechanical Seals Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Single Cartridge Mechanical Seals Production Market

Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Single Cartridge Mechanical Seals Consumption Comparison

4.3.1 United States VS China: Single Cartridge Mechanical Seals Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Single Cartridge Mechanical Seals Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Single Cartridge Mechanical Seals Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Single Cartridge Mechanical Seals Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Single Cartridge Mechanical Seals Production Value (2021-2026)

4.4.3 United States Based Manufacturers Single Cartridge Mechanical Seals Production (2021-2026)

4.5 China Based Single Cartridge Mechanical Seals Manufacturers and Market Share

4.5.1 China Based Single Cartridge Mechanical Seals Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Single Cartridge Mechanical Seals Production Value (2021-2026)

4.5.3 China Based Manufacturers Single Cartridge Mechanical Seals Production (2021-2026)

4.6 Rest of World Based Single Cartridge Mechanical Seals Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Single Cartridge Mechanical Seals Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Single Cartridge Mechanical Seals Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Single Cartridge Mechanical Seals Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Single Cartridge Mechanical Seals Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Single-end Face

5.2.2 Double-end Face

5.3 Market Segment by Type

- 5.3.1 World Single Cartridge Mechanical Seals Production by Type (2021-2032)
- 5.3.2 World Single Cartridge Mechanical Seals Production Value by Type (2021-2032)
- 5.3.3 World Single Cartridge Mechanical Seals Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY COMBINATION CATEGORY

- 6.1 World Single Cartridge Mechanical Seals Market Size Overview by Combination Category: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Combination Category
 - 6.2.1 Silicon Carbide vs. Silicon Carbide
 - 6.2.2 Silicon Carbide vs. Cemented Carbide
 - 6.2.3 Cemented Carbide vs. Graphite
 - 6.2.4 Others
- 6.3 Market Segment by Combination Category
 - 6.3.1 World Single Cartridge Mechanical Seals Production by Combination Category (2021-2032)
 - 6.3.2 World Single Cartridge Mechanical Seals Production Value by Combination Category (2021-2032)
 - 6.3.3 World Single Cartridge Mechanical Seals Average Price by Combination Category (2021-2032)

7 MARKET ANALYSIS BY FLUSHING SOLUTION

- 7.1 World Single Cartridge Mechanical Seals Market Size Overview by Flushing Solution: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Flushing Solution
 - 7.2.1 Self-rinsing
 - 7.2.2 External Rinsing
- 7.3 Market Segment by Flushing Solution
 - 7.3.1 World Single Cartridge Mechanical Seals Production by Flushing Solution (2021-2032)
 - 7.3.2 World Single Cartridge Mechanical Seals Production Value by Flushing Solution (2021-2032)
 - 7.3.3 World Single Cartridge Mechanical Seals Average Price by Flushing Solution (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

- 8.1 World Single Cartridge Mechanical Seals Market Size Overview by Application:

2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Petroleum

8.2.2 Electricity

8.2.3 Food

8.2.4 Pharmaceuticals

8.2.5 Others

8.3 Market Segment by Application

8.3.1 World Single Cartridge Mechanical Seals Production by Application (2021-2032)

8.3.2 World Single Cartridge Mechanical Seals Production Value by Application (2021-2032)

8.3.3 World Single Cartridge Mechanical Seals Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Microtem

9.1.1 Microtem Details

9.1.2 Microtem Major Business

9.1.3 Microtem Single Cartridge Mechanical Seals Product and Services

9.1.4 Microtem Single Cartridge Mechanical Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Microtem Recent Developments/Updates

9.1.6 Microtem Competitive Strengths & Weaknesses

9.2 Flexaseal

9.2.1 Flexaseal Details

9.2.2 Flexaseal Major Business

9.2.3 Flexaseal Single Cartridge Mechanical Seals Product and Services

9.2.4 Flexaseal Single Cartridge Mechanical Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Flexaseal Recent Developments/Updates

9.2.6 Flexaseal Competitive Strengths & Weaknesses

9.3 QMSEALS

9.3.1 QMSEALS Details

9.3.2 QMSEALS Major Business

9.3.3 QMSEALS Single Cartridge Mechanical Seals Product and Services

9.3.4 QMSEALS Single Cartridge Mechanical Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 QMSEALS Recent Developments/Updates

9.3.6 QMSEALS Competitive Strengths & Weaknesses

9.4 Tekhniseal

9.4.1 Tekhniseal Details

9.4.2 Tekhniseal Major Business

9.4.3 Tekhniseal Single Cartridge Mechanical Seals Product and Services

9.4.4 Tekhniseal Single Cartridge Mechanical Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Tekhniseal Recent Developments/Updates

9.4.6 Tekhniseal Competitive Strengths & Weaknesses

9.5 Sealcon

9.5.1 Sealcon Details

9.5.2 Sealcon Major Business

9.5.3 Sealcon Single Cartridge Mechanical Seals Product and Services

9.5.4 Sealcon Single Cartridge Mechanical Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Sealcon Recent Developments/Updates

9.5.6 Sealcon Competitive Strengths & Weaknesses

9.6 Sino-Seals

9.6.1 Sino-Seals Details

9.6.2 Sino-Seals Major Business

9.6.3 Sino-Seals Single Cartridge Mechanical Seals Product and Services

9.6.4 Sino-Seals Single Cartridge Mechanical Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Sino-Seals Recent Developments/Updates

9.6.6 Sino-Seals Competitive Strengths & Weaknesses

9.7 Quantech Seals

9.7.1 Quantech Seals Details

9.7.2 Quantech Seals Major Business

9.7.3 Quantech Seals Single Cartridge Mechanical Seals Product and Services

9.7.4 Quantech Seals Single Cartridge Mechanical Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Quantech Seals Recent Developments/Updates

9.7.6 Quantech Seals Competitive Strengths & Weaknesses

9.8 AESSEAL

9.8.1 AESSEAL Details

9.8.2 AESSEAL Major Business

9.8.3 AESSEAL Single Cartridge Mechanical Seals Product and Services

9.8.4 AESSEAL Single Cartridge Mechanical Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.8.5 AESSEAL Recent Developments/Updates
- 9.8.6 AESSEAL Competitive Strengths & Weaknesses
- 9.9 Cosmos Seals India Pvt Ltd
 - 9.9.1 Cosmos Seals India Pvt Ltd Details
 - 9.9.2 Cosmos Seals India Pvt Ltd Major Business
 - 9.9.3 Cosmos Seals India Pvt Ltd Single Cartridge Mechanical Seals Product and Services
 - 9.9.4 Cosmos Seals India Pvt Ltd Single Cartridge Mechanical Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Cosmos Seals India Pvt Ltd Recent Developments/Updates
 - 9.9.6 Cosmos Seals India Pvt Ltd Competitive Strengths & Weaknesses
- 9.10 TRISUN Ltd
 - 9.10.1 TRISUN Ltd Details
 - 9.10.2 TRISUN Ltd Major Business
 - 9.10.3 TRISUN Ltd Single Cartridge Mechanical Seals Product and Services
 - 9.10.4 TRISUN Ltd Single Cartridge Mechanical Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 TRISUN Ltd Recent Developments/Updates
 - 9.10.6 TRISUN Ltd Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Single Cartridge Mechanical Seals Industry Chain
- 10.2 Single Cartridge Mechanical Seals Upstream Analysis
 - 10.2.1 Single Cartridge Mechanical Seals Core Raw Materials
 - 10.2.2 Main Manufacturers of Single Cartridge Mechanical Seals Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Single Cartridge Mechanical Seals Production Mode
- 10.6 Single Cartridge Mechanical Seals Procurement Model
- 10.7 Single Cartridge Mechanical Seals Industry Sales Model and Sales Channels
 - 10.7.1 Single Cartridge Mechanical Seals Sales Model
 - 10.7.2 Single Cartridge Mechanical Seals 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 Single Cartridge Mechanical Seals Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Single Cartridge Mechanical Seals Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Single Cartridge Mechanical Seals Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Single Cartridge Mechanical Seals Production Value Market Share by Region (2021-2026)
- Table 5. World Single Cartridge Mechanical Seals Production Value Market Share by Region (2027-2032)
- Table 6. World Single Cartridge Mechanical Seals Production by Region (2021-2026) & (K Units)
- Table 7. World Single Cartridge Mechanical Seals Production by Region (2027-2032) & (K Units)
- Table 8. World Single Cartridge Mechanical Seals Production Market Share by Region (2021-2026)
- Table 9. World Single Cartridge Mechanical Seals Production Market Share by Region (2027-2032)
- Table 10. World Single Cartridge Mechanical Seals Average Price by Region (2021-2026) & (US\$/Unit)
- Table 11. World Single Cartridge Mechanical Seals Average Price by Region (2027-2032) & (US\$/Unit)
- Table 12. Single Cartridge Mechanical Seals Major Market Trends
- Table 13. World Single Cartridge Mechanical Seals Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
- Table 14. World Single Cartridge Mechanical Seals Consumption by Region (2021-2026) & (K Units)
- Table 15. World Single Cartridge Mechanical Seals Consumption Forecast by Region (2027-2032) & (K Units)
- Table 16. World Single Cartridge Mechanical Seals Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Single Cartridge Mechanical Seals Producers in 2025
- Table 18. World Single Cartridge Mechanical Seals Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Single Cartridge Mechanical Seals Producers in 2025

Table 20. World Single Cartridge Mechanical Seals Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Single Cartridge Mechanical Seals Company Evaluation Quadrant

Table 22. World Single Cartridge Mechanical Seals Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Single Cartridge Mechanical Seals Production Site of Key Manufacturer

Table 24. Single Cartridge Mechanical Seals Market: Company Product Type Footprint

Table 25. Single Cartridge Mechanical Seals Market: Company Product Application Footprint

Table 26. Single Cartridge Mechanical Seals Competitive Factors

Table 27. Single Cartridge Mechanical Seals New Entrant and Capacity Expansion Plans

Table 28. Single Cartridge Mechanical Seals Mergers & Acquisitions Activity

Table 29. United States VS China Single Cartridge Mechanical Seals Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Single Cartridge Mechanical Seals Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Single Cartridge Mechanical Seals Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Single Cartridge Mechanical Seals Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Single Cartridge Mechanical Seals Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Single Cartridge Mechanical Seals Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Single Cartridge Mechanical Seals Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Single Cartridge Mechanical Seals Production Market Share (2021-2026)

Table 37. China Based Single Cartridge Mechanical Seals Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Single Cartridge Mechanical Seals Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Single Cartridge Mechanical Seals Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Single Cartridge Mechanical Seals Production,

(2021-2026) & (K Units)

Table 41. China Based Manufacturers Single Cartridge Mechanical Seals Production Market Share (2021-2026)

Table 42. Rest of World Based Single Cartridge Mechanical Seals Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Single Cartridge Mechanical Seals Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Single Cartridge Mechanical Seals Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Single Cartridge Mechanical Seals Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Single Cartridge Mechanical Seals Production Market Share (2021-2026)

Table 47. World Single Cartridge Mechanical Seals Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Single Cartridge Mechanical Seals Production by Type (2021-2026) & (K Units)

Table 49. World Single Cartridge Mechanical Seals Production by Type (2027-2032) & (K Units)

Table 50. World Single Cartridge Mechanical Seals Production Value by Type (2021-2026) & (USD Million)

Table 51. World Single Cartridge Mechanical Seals Production Value by Type (2027-2032) & (USD Million)

Table 52. World Single Cartridge Mechanical Seals Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Single Cartridge Mechanical Seals Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Single Cartridge Mechanical Seals Production Value by Combination Category, (USD Million), 2021 & 2025 & 2032

Table 55. World Single Cartridge Mechanical Seals Production by Combination Category (2021-2026) & (K Units)

Table 56. World Single Cartridge Mechanical Seals Production by Combination Category (2027-2032) & (K Units)

Table 57. World Single Cartridge Mechanical Seals Production Value by Combination Category (2021-2026) & (USD Million)

Table 58. World Single Cartridge Mechanical Seals Production Value by Combination Category (2027-2032) & (USD Million)

Table 59. World Single Cartridge Mechanical Seals Average Price by Combination Category (2021-2026) & (US\$/Unit)

Table 60. World Single Cartridge Mechanical Seals Average Price by Combination Category (2027-2032) & (US\$/Unit)

Table 61. World Single Cartridge Mechanical Seals Production Value by Flushing Solution, (USD Million), 2021 & 2025 & 2032

Table 62. World Single Cartridge Mechanical Seals Production by Flushing Solution (2021-2026) & (K Units)

Table 63. World Single Cartridge Mechanical Seals Production by Flushing Solution (2027-2032) & (K Units)

Table 64. World Single Cartridge Mechanical Seals Production Value by Flushing Solution (2021-2026) & (USD Million)

Table 65. World Single Cartridge Mechanical Seals Production Value by Flushing Solution (2027-2032) & (USD Million)

Table 66. World Single Cartridge Mechanical Seals Average Price by Flushing Solution (2021-2026) & (US\$/Unit)

Table 67. World Single Cartridge Mechanical Seals Average Price by Flushing Solution (2027-2032) & (US\$/Unit)

Table 68. World Single Cartridge Mechanical Seals Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Single Cartridge Mechanical Seals Production by Application (2021-2026) & (K Units)

Table 70. World Single Cartridge Mechanical Seals Production by Application (2027-2032) & (K Units)

Table 71. World Single Cartridge Mechanical Seals Production Value by Application (2021-2026) & (USD Million)

Table 72. World Single Cartridge Mechanical Seals Production Value by Application (2027-2032) & (USD Million)

Table 73. World Single Cartridge Mechanical Seals Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Single Cartridge Mechanical Seals Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Microtem Basic Information, Manufacturing Base and Competitors

Table 76. Microtem Major Business

Table 77. Microtem Single Cartridge Mechanical Seals Product and Services

Table 78. Microtem Single Cartridge Mechanical Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Microtem Recent Developments/Updates

Table 80. Microtem Competitive Strengths & Weaknesses

Table 81. Flexaseal Basic Information, Manufacturing Base and Competitors

Table 82. Flexaseal Major Business

Table 83. Flexaseal Single Cartridge Mechanical Seals Product and Services

Table 84. Flexaseal Single Cartridge Mechanical Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Flexaseal Recent Developments/Updates

Table 86. Flexaseal Competitive Strengths & Weaknesses

Table 87. QMSEALS Basic Information, Manufacturing Base and Competitors

Table 88. QMSEALS Major Business

Table 89. QMSEALS Single Cartridge Mechanical Seals Product and Services

Table 90. QMSEALS Single Cartridge Mechanical Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. QMSEALS Recent Developments/Updates

Table 92. QMSEALS Competitive Strengths & Weaknesses

Table 93. Tekhniseal Basic Information, Manufacturing Base and Competitors

Table 94. Tekhniseal Major Business

Table 95. Tekhniseal Single Cartridge Mechanical Seals Product and Services

Table 96. Tekhniseal Single Cartridge Mechanical Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Tekhniseal Recent Developments/Updates

Table 98. Tekhniseal Competitive Strengths & Weaknesses

Table 99. Sealcon Basic Information, Manufacturing Base and Competitors

Table 100. Sealcon Major Business

Table 101. Sealcon Single Cartridge Mechanical Seals Product and Services

Table 102. Sealcon Single Cartridge Mechanical Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Sealcon Recent Developments/Updates

Table 104. Sealcon Competitive Strengths & Weaknesses

Table 105. Sino-Seals Basic Information, Manufacturing Base and Competitors

Table 106. Sino-Seals Major Business

Table 107. Sino-Seals Single Cartridge Mechanical Seals Product and Services

Table 108. Sino-Seals Single Cartridge Mechanical Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Sino-Seals Recent Developments/Updates

Table 110. Sino-Seals Competitive Strengths & Weaknesses

Table 111. Quantech Seals Basic Information, Manufacturing Base and Competitors

Table 112. Quantech Seals Major Business

Table 113. Quantech Seals Single Cartridge Mechanical Seals Product and Services

Table 114. Quantech Seals Single Cartridge Mechanical Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Quantech Seals Recent Developments/Updates

Table 116. Quantech Seals Competitive Strengths & Weaknesses

Table 117. AESSEAL Basic Information, Manufacturing Base and Competitors

Table 118. AESSEAL Major Business

Table 119. AESSEAL Single Cartridge Mechanical Seals Product and Services

Table 120. AESSEAL Single Cartridge Mechanical Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. AESSEAL Recent Developments/Updates

Table 122. AESSEAL Competitive Strengths & Weaknesses

Table 123. Cosmos Seals India Pvt Ltd Basic Information, Manufacturing Base and Competitors

Table 124. Cosmos Seals India Pvt Ltd Major Business

Table 125. Cosmos Seals India Pvt Ltd Single Cartridge Mechanical Seals Product and Services

Table 126. Cosmos Seals India Pvt Ltd Single Cartridge Mechanical Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Cosmos Seals India Pvt Ltd Recent Developments/Updates

Table 128. Cosmos Seals India Pvt Ltd Competitive Strengths & Weaknesses

Table 129. TRISUN Ltd Basic Information, Manufacturing Base and Competitors

Table 130. TRISUN Ltd Major Business

Table 131. TRISUN Ltd Single Cartridge Mechanical Seals Product and Services

Table 132. TRISUN Ltd Single Cartridge Mechanical Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. TRISUN Ltd Recent Developments/Updates

Table 134. TRISUN Ltd Competitive Strengths & Weaknesses

Table 135. Global Key Players of Single Cartridge Mechanical Seals Upstream (Raw Materials)

Table 136. Global Single Cartridge Mechanical Seals Typical Customers

Table 137. Single Cartridge Mechanical Seals Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Single Cartridge Mechanical Seals Picture

Figure 2. World Single Cartridge Mechanical Seals Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Single Cartridge Mechanical Seals Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Single Cartridge Mechanical Seals Production (2021-2032) & (K Units)

Figure 5. World Single Cartridge Mechanical Seals Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Single Cartridge Mechanical Seals Production Value Market Share by Region (2021-2032)

Figure 7. World Single Cartridge Mechanical Seals Production Market Share by Region (2021-2032)

Figure 8. North America Single Cartridge Mechanical Seals Production (2021-2032) & (K Units)

Figure 9. Europe Single Cartridge Mechanical Seals Production (2021-2032) & (K Units)

Figure 10. China Single Cartridge Mechanical Seals Production (2021-2032) & (K Units)

Figure 11. Japan Single Cartridge Mechanical Seals Production (2021-2032) & (K Units)

Figure 12. Single Cartridge Mechanical Seals Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Single Cartridge Mechanical Seals Consumption (2021-2032) & (K Units)

Figure 15. World Single Cartridge Mechanical Seals Consumption Market Share by Region (2021-2032)

Figure 16. United States Single Cartridge Mechanical Seals Consumption (2021-2032) & (K Units)

Figure 17. China Single Cartridge Mechanical Seals Consumption (2021-2032) & (K Units)

Figure 18. Europe Single Cartridge Mechanical Seals Consumption (2021-2032) & (K Units)

Figure 19. Japan Single Cartridge Mechanical Seals Consumption (2021-2032) & (K Units)

Figure 20. South Korea Single Cartridge Mechanical Seals Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Single Cartridge Mechanical Seals Consumption (2021-2032) & (K Units)

Figure 22. India Single Cartridge Mechanical Seals Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Single Cartridge Mechanical Seals by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Single Cartridge Mechanical Seals Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Single Cartridge Mechanical Seals Markets in 2025

Figure 26. United States VS China: Single Cartridge Mechanical Seals Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Single Cartridge Mechanical Seals Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Single Cartridge Mechanical Seals Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Single Cartridge Mechanical Seals Production Market Share 2025

Figure 30. China Based Manufacturers Single Cartridge Mechanical Seals Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Single Cartridge Mechanical Seals Production Market Share 2025

Figure 32. World Single Cartridge Mechanical Seals Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Single Cartridge Mechanical Seals Production Value Market Share by Type in 2025

Figure 34. Single-end Face

Figure 35. Double-end Face

Figure 36. World Single Cartridge Mechanical Seals Production Market Share by Type (2021-2032)

Figure 37. World Single Cartridge Mechanical Seals Production Value Market Share by Type (2021-2032)

Figure 38. World Single Cartridge Mechanical Seals Average Price by Type (2021-2032) & (US\$/Unit)

Figure 39. World Single Cartridge Mechanical Seals Production Value by Combination Category, (USD Million), 2021 & 2025 & 2032

Figure 40. World Single Cartridge Mechanical Seals Production Value Market Share by Combination Category in 2025

Figure 41. Silicon Carbide vs. Silicon Carbide

Figure 42. Silicon Carbide vs. Cemented Carbide

Figure 43. Cemented Carbide vs. Graphite

Figure 44. Others

Figure 45. World Single Cartridge Mechanical Seals Production Market Share by Combination Category (2021-2032)

Figure 46. World Single Cartridge Mechanical Seals Production Value Market Share by Combination Category (2021-2032)

Figure 47. World Single Cartridge Mechanical Seals Average Price by Combination Category (2021-2032) & (US\$/Unit)

Figure 48. World Single Cartridge Mechanical Seals Production Value by Flushing Solution, (USD Million), 2021 & 2025 & 2032

Figure 49. World Single Cartridge Mechanical Seals Production Value Market Share by Flushing Solution in 2025

Figure 50. Self-rinsing

Figure 51. External Rinsing

Figure 52. World Single Cartridge Mechanical Seals Production Market Share by Flushing Solution (2021-2032)

Figure 53. World Single Cartridge Mechanical Seals Production Value Market Share by Flushing Solution (2021-2032)

Figure 54. World Single Cartridge Mechanical Seals Average Price by Flushing Solution (2021-2032) & (US\$/Unit)

Figure 55. World Single Cartridge Mechanical Seals Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World Single Cartridge Mechanical Seals Production Value Market Share by Application in 2025

Figure 57. Petroleum

Figure 58. Electricity

Figure 59. Food

Figure 60. Pharmaceuticals

Figure 61. Others

Figure 62. World Single Cartridge Mechanical Seals Production Market Share by Application (2021-2032)

Figure 63. World Single Cartridge Mechanical Seals Production Value Market Share by Application (2021-2032)

Figure 64. World Single Cartridge Mechanical Seals Average Price by Application (2021-2032) & (US\$/Unit)

Figure 65. Single Cartridge Mechanical Seals Industry Chain

Figure 66. Single Cartridge Mechanical Seals Procurement Model

Figure 67. Single Cartridge Mechanical Seals Sales Model

Figure 68. Single Cartridge Mechanical Seals Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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