

Global Single Cartridge Mechanical Seals Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Single Cartridge Mechanical Seals market size was valued at US\$ 206 million in 2025 and is forecast to a readjusted size of US\$ 301 million by 2032 with a CAGR of 5.6% during review period.

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 is a detailed and comprehensive analysis for global Single Cartridge Mechanical Seals market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Single Cartridge Mechanical Seals market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Single Cartridge Mechanical Seals market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Single Cartridge Mechanical Seals market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Single Cartridge Mechanical Seals market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Single Cartridge Mechanical Seals

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Single Cartridge Mechanical Seals market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Single Cartridge Mechanical Seals market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Single-end Face

Double-end Face

Market segment by Combination Category

Silicon Carbide vs. Silicon Carbide

Silicon Carbide vs. Cemented Carbide

Cemented Carbide vs. Graphite

Others

Market segment by Flushing Solution

Self-rinsing

External Rinsing

Market segment by Application

Petroleum

Electricity

Food

Pharmaceuticals

Others

Major players covered

Microtem

Flexaseal

QMSEALS

Tekhniseal

Sealcon

Sino-Seals

Quantech Seals

AESSEAL

Cosmos Seals India Pvt Ltd

TRISUN Ltd

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Single Cartridge Mechanical Seals product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Single Cartridge Mechanical Seals, with price, sales quantity, revenue, and global market share of Single Cartridge Mechanical Seals from 2021 to 2026.

Chapter 3, the Single Cartridge Mechanical Seals competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Single Cartridge Mechanical Seals breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Single Cartridge Mechanical Seals market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Single Cartridge Mechanical Seals.

Chapter 14 and 15, to describe Single Cartridge Mechanical Seals sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Single Cartridge Mechanical Seals Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Single-end Face

1.3.3 Double-end Face

1.4 Market Analysis by Combination Category

1.4.1 Overview: Global Single Cartridge Mechanical Seals Consumption Value by Combination Category: 2021 Versus 2025 Versus 2032

1.4.2 Silicon Carbide vs. Silicon Carbide

1.4.3 Silicon Carbide vs. Cemented Carbide

1.4.4 Cemented Carbide vs. Graphite

1.4.5 Others

1.5 Market Analysis by Flushing Solution

1.5.1 Overview: Global Single Cartridge Mechanical Seals Consumption Value by Flushing Solution: 2021 Versus 2025 Versus 2032

1.5.2 Self-rinsing

1.5.3 External Rinsing

1.6 Market Analysis by Application

1.6.1 Overview: Global Single Cartridge Mechanical Seals Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Petroleum

1.6.3 Electricity

1.6.4 Food

1.6.5 Pharmaceuticals

1.6.6 Others

1.7 Global Single Cartridge Mechanical Seals Market Size & Forecast

1.7.1 Global Single Cartridge Mechanical Seals Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Single Cartridge Mechanical Seals Sales Quantity (2021-2032)

1.7.3 Global Single Cartridge Mechanical Seals Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Microtem

2.1.1 Microtem Details

2.1.2 Microtem Major Business

2.1.3 Microtem Single Cartridge Mechanical Seals Product and Services

2.1.4 Microtem Single Cartridge Mechanical Seals Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Microtem Recent Developments/Updates

2.2 Flexaseal

2.2.1 Flexaseal Details

2.2.2 Flexaseal Major Business

2.2.3 Flexaseal Single Cartridge Mechanical Seals Product and Services

2.2.4 Flexaseal Single Cartridge Mechanical Seals Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Flexaseal Recent Developments/Updates

2.3 QMSEALS

2.3.1 QMSEALS Details

2.3.2 QMSEALS Major Business

2.3.3 QMSEALS Single Cartridge Mechanical Seals Product and Services

2.3.4 QMSEALS Single Cartridge Mechanical Seals Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 QMSEALS Recent Developments/Updates

2.4 Tekhniseal

2.4.1 Tekhniseal Details

2.4.2 Tekhniseal Major Business

2.4.3 Tekhniseal Single Cartridge Mechanical Seals Product and Services

2.4.4 Tekhniseal Single Cartridge Mechanical Seals Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Tekhniseal Recent Developments/Updates

2.5 Sealcon

2.5.1 Sealcon Details

2.5.2 Sealcon Major Business

2.5.3 Sealcon Single Cartridge Mechanical Seals Product and Services

2.5.4 Sealcon Single Cartridge Mechanical Seals Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Sealcon Recent Developments/Updates

2.6 Sino-Seals

2.6.1 Sino-Seals Details

2.6.2 Sino-Seals Major Business

2.6.3 Sino-Seals Single Cartridge Mechanical Seals Product and Services

2.6.4 Sino-Seals Single Cartridge Mechanical Seals Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Sino-Seals Recent Developments/Updates

2.7 Quantech Seals

2.7.1 Quantech Seals Details

2.7.2 Quantech Seals Major Business

2.7.3 Quantech Seals Single Cartridge Mechanical Seals Product and Services

2.7.4 Quantech Seals Single Cartridge Mechanical Seals Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Quantech Seals Recent Developments/Updates

2.8 AESSEAL

2.8.1 AESSEAL Details

2.8.2 AESSEAL Major Business

2.8.3 AESSEAL Single Cartridge Mechanical Seals Product and Services

2.8.4 AESSEAL Single Cartridge Mechanical Seals Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 AESSEAL Recent Developments/Updates

2.9 Cosmos Seals India Pvt Ltd

2.9.1 Cosmos Seals India Pvt Ltd Details

2.9.2 Cosmos Seals India Pvt Ltd Major Business

2.9.3 Cosmos Seals India Pvt Ltd Single Cartridge Mechanical Seals Product and Services

2.9.4 Cosmos Seals India Pvt Ltd Single Cartridge Mechanical Seals Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Cosmos Seals India Pvt Ltd Recent Developments/Updates

2.10 TRISUN Ltd

2.10.1 TRISUN Ltd Details

2.10.2 TRISUN Ltd Major Business

2.10.3 TRISUN Ltd Single Cartridge Mechanical Seals Product and Services

2.10.4 TRISUN Ltd Single Cartridge Mechanical Seals Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 TRISUN Ltd Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: SINGLE CARTRIDGE MECHANICAL SEALS BY MANUFACTURER

3.1 Global Single Cartridge Mechanical Seals Sales Quantity by Manufacturer (2021-2026)

3.2 Global Single Cartridge Mechanical Seals Revenue by Manufacturer (2021-2026)

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

3.4 Market Share Analysis (2025)

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

3.4.2 Top 3 Single Cartridge Mechanical Seals Manufacturer Market Share in 2025

3.4.3 Top 6 Single Cartridge Mechanical Seals Manufacturer Market Share in 2025

3.5 Single Cartridge Mechanical Seals Market: Overall Company Footprint Analysis

3.5.1 Single Cartridge Mechanical Seals Market: Region Footprint

3.5.2 Single Cartridge Mechanical Seals Market: Company Product Type Footprint

3.5.3 Single Cartridge Mechanical Seals Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Single Cartridge Mechanical Seals Market Size by Region

4.1.1 Global Single Cartridge Mechanical Seals Sales Quantity by Region (2021-2032)

4.1.2 Global Single Cartridge Mechanical Seals Consumption Value by Region (2021-2032)

4.1.3 Global Single Cartridge Mechanical Seals Average Price by Region (2021-2032)

4.2 North America Single Cartridge Mechanical Seals Consumption Value (2021-2032)

4.3 Europe Single Cartridge Mechanical Seals Consumption Value (2021-2032)

4.4 Asia-Pacific Single Cartridge Mechanical Seals Consumption Value (2021-2032)

4.5 South America Single Cartridge Mechanical Seals Consumption Value (2021-2032)

4.6 Middle East & Africa Single Cartridge Mechanical Seals Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Single Cartridge Mechanical Seals Sales Quantity by Type (2021-2032)

5.2 Global Single Cartridge Mechanical Seals Consumption Value by Type (2021-2032)

5.3 Global Single Cartridge Mechanical Seals Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Single Cartridge Mechanical Seals Sales Quantity by Application (2021-2032)

6.2 Global Single Cartridge Mechanical Seals Consumption Value by Application (2021-2032)

6.3 Global Single Cartridge Mechanical Seals Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Single Cartridge Mechanical Seals Sales Quantity by Type (2021-2032)

7.2 North America Single Cartridge Mechanical Seals Sales Quantity by Application (2021-2032)

7.3 North America Single Cartridge Mechanical Seals Market Size by Country

7.3.1 North America Single Cartridge Mechanical Seals Sales Quantity by Country (2021-2032)

7.3.2 North America Single Cartridge Mechanical Seals Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Single Cartridge Mechanical Seals Sales Quantity by Type (2021-2032)

8.2 Europe Single Cartridge Mechanical Seals Sales Quantity by Application (2021-2032)

8.3 Europe Single Cartridge Mechanical Seals Market Size by Country

8.3.1 Europe Single Cartridge Mechanical Seals Sales Quantity by Country (2021-2032)

8.3.2 Europe Single Cartridge Mechanical Seals Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Single Cartridge Mechanical Seals Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Single Cartridge Mechanical Seals Sales Quantity by Application

(2021-2032)

9.3 Asia-Pacific Single Cartridge Mechanical Seals Market Size by Region

9.3.1 Asia-Pacific Single Cartridge Mechanical Seals Sales Quantity by Region

(2021-2032)

9.3.2 Asia-Pacific Single Cartridge Mechanical Seals Consumption Value by Region

(2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Single Cartridge Mechanical Seals Sales Quantity by Type

(2021-2032)

10.2 South America Single Cartridge Mechanical Seals Sales Quantity by Application

(2021-2032)

10.3 South America Single Cartridge Mechanical Seals Market Size by Country

10.3.1 South America Single Cartridge Mechanical Seals Sales Quantity by Country

(2021-2032)

10.3.2 South America Single Cartridge Mechanical Seals Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Single Cartridge Mechanical Seals Sales Quantity by Type

(2021-2032)

11.2 Middle East & Africa Single Cartridge Mechanical Seals Sales Quantity by Application

(2021-2032)

11.3 Middle East & Africa Single Cartridge Mechanical Seals Market Size by Country

11.3.1 Middle East & Africa Single Cartridge Mechanical Seals Sales Quantity by Country

(2021-2032)

11.3.2 Middle East & Africa Single Cartridge Mechanical Seals Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

- 11.3.4 Egypt Market Size and Forecast (2021-2032)
- 11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
- 11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

- 12.1 Single Cartridge Mechanical Seals Market Drivers
- 12.2 Single Cartridge Mechanical Seals Market Restraints
- 12.3 Single Cartridge Mechanical Seals Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Single Cartridge Mechanical Seals and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Single Cartridge Mechanical Seals
- 13.3 Single Cartridge Mechanical Seals Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Single Cartridge Mechanical Seals Typical Distributors
- 14.3 Single Cartridge Mechanical Seals Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. Global Single Cartridge Mechanical Seals Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
- Table 2. Global Single Cartridge Mechanical Seals Consumption Value by Combination Category, (USD Million), 2021 & 2025 & 2032
- Table 3. Global Single Cartridge Mechanical Seals Consumption Value by Flushing Solution, (USD Million), 2021 & 2025 & 2032
- Table 4. Global Single Cartridge Mechanical Seals Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 5. Microtem Basic Information, Manufacturing Base and Competitors
- Table 6. Microtem Major Business
- Table 7. Microtem Single Cartridge Mechanical Seals Product and Services
- Table 8. Microtem Single Cartridge Mechanical Seals Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 9. Microtem Recent Developments/Updates
- Table 10. Flexaseal Basic Information, Manufacturing Base and Competitors
- Table 11. Flexaseal Major Business
- Table 12. Flexaseal Single Cartridge Mechanical Seals Product and Services
- Table 13. Flexaseal Single Cartridge Mechanical Seals Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 14. Flexaseal Recent Developments/Updates
- Table 15. QMSEALS Basic Information, Manufacturing Base and Competitors
- Table 16. QMSEALS Major Business
- Table 17. QMSEALS Single Cartridge Mechanical Seals Product and Services
- Table 18. QMSEALS Single Cartridge Mechanical Seals Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 19. QMSEALS Recent Developments/Updates
- Table 20. Tekhniseal Basic Information, Manufacturing Base and Competitors
- Table 21. Tekhniseal Major Business
- Table 22. Tekhniseal Single Cartridge Mechanical Seals Product and Services
- Table 23. Tekhniseal Single Cartridge Mechanical Seals Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 24. Tekhniseal Recent Developments/Updates

- Table 25. Sealcon Basic Information, Manufacturing Base and Competitors
- Table 26. Sealcon Major Business
- Table 27. Sealcon Single Cartridge Mechanical Seals Product and Services
- Table 28. Sealcon Single Cartridge Mechanical Seals Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 29. Sealcon Recent Developments/Updates
- Table 30. Sino-Seals Basic Information, Manufacturing Base and Competitors
- Table 31. Sino-Seals Major Business
- Table 32. Sino-Seals Single Cartridge Mechanical Seals Product and Services
- Table 33. Sino-Seals Single Cartridge Mechanical Seals Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 34. Sino-Seals Recent Developments/Updates
- Table 35. Quantech Seals Basic Information, Manufacturing Base and Competitors
- Table 36. Quantech Seals Major Business
- Table 37. Quantech Seals Single Cartridge Mechanical Seals Product and Services
- Table 38. Quantech Seals Single Cartridge Mechanical Seals Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 39. Quantech Seals Recent Developments/Updates
- Table 40. AESSEAL Basic Information, Manufacturing Base and Competitors
- Table 41. AESSEAL Major Business
- Table 42. AESSEAL Single Cartridge Mechanical Seals Product and Services
- Table 43. AESSEAL Single Cartridge Mechanical Seals Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 44. AESSEAL Recent Developments/Updates
- Table 45. Cosmos Seals India Pvt Ltd Basic Information, Manufacturing Base and Competitors
- Table 46. Cosmos Seals India Pvt Ltd Major Business
- Table 47. Cosmos Seals India Pvt Ltd Single Cartridge Mechanical Seals Product and Services
- Table 48. Cosmos Seals India Pvt Ltd Single Cartridge Mechanical Seals Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 49. Cosmos Seals India Pvt Ltd Recent Developments/Updates
- Table 50. TRISUN Ltd Basic Information, Manufacturing Base and Competitors
- Table 51. TRISUN Ltd Major Business
- Table 52. TRISUN Ltd Single Cartridge Mechanical Seals Product and Services

Table 53. TRISUN Ltd Single Cartridge Mechanical Seals Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. TRISUN Ltd Recent Developments/Updates

Table 55. Global Single Cartridge Mechanical Seals Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 56. Global Single Cartridge Mechanical Seals Revenue by Manufacturer (2021-2026) & (USD Million)

Table 57. Global Single Cartridge Mechanical Seals Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 58. Market Position of Manufacturers in Single Cartridge Mechanical Seals, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 59. Head Office and Single Cartridge Mechanical Seals Production Site of Key Manufacturer

Table 60. Single Cartridge Mechanical Seals Market: Company Product Type Footprint

Table 61. Single Cartridge Mechanical Seals Market: Company Product Application Footprint

Table 62. Single Cartridge Mechanical Seals New Market Entrants and Barriers to Market Entry

Table 63. Single Cartridge Mechanical Seals Mergers, Acquisition, Agreements, and Collaborations

Table 64. Global Single Cartridge Mechanical Seals Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 65. Global Single Cartridge Mechanical Seals Sales Quantity by Region (2021-2026) & (K Units)

Table 66. Global Single Cartridge Mechanical Seals Sales Quantity by Region (2027-2032) & (K Units)

Table 67. Global Single Cartridge Mechanical Seals Consumption Value by Region (2021-2026) & (USD Million)

Table 68. Global Single Cartridge Mechanical Seals Consumption Value by Region (2027-2032) & (USD Million)

Table 69. Global Single Cartridge Mechanical Seals Average Price by Region (2021-2026) & (US\$/Unit)

Table 70. Global Single Cartridge Mechanical Seals Average Price by Region (2027-2032) & (US\$/Unit)

Table 71. Global Single Cartridge Mechanical Seals Sales Quantity by Type (2021-2026) & (K Units)

Table 72. Global Single Cartridge Mechanical Seals Sales Quantity by Type (2027-2032) & (K Units)

Table 73. Global Single Cartridge Mechanical Seals Consumption Value by Type (2021-2026) & (USD Million)

Table 74. Global Single Cartridge Mechanical Seals Consumption Value by Type (2027-2032) & (USD Million)

Table 75. Global Single Cartridge Mechanical Seals Average Price by Type (2021-2026) & (US\$/Unit)

Table 76. Global Single Cartridge Mechanical Seals Average Price by Type (2027-2032) & (US\$/Unit)

Table 77. Global Single Cartridge Mechanical Seals Sales Quantity by Application (2021-2026) & (K Units)

Table 78. Global Single Cartridge Mechanical Seals Sales Quantity by Application (2027-2032) & (K Units)

Table 79. Global Single Cartridge Mechanical Seals Consumption Value by Application (2021-2026) & (USD Million)

Table 80. Global Single Cartridge Mechanical Seals Consumption Value by Application (2027-2032) & (USD Million)

Table 81. Global Single Cartridge Mechanical Seals Average Price by Application (2021-2026) & (US\$/Unit)

Table 82. Global Single Cartridge Mechanical Seals Average Price by Application (2027-2032) & (US\$/Unit)

Table 83. North America Single Cartridge Mechanical Seals Sales Quantity by Type (2021-2026) & (K Units)

Table 84. North America Single Cartridge Mechanical Seals Sales Quantity by Type (2027-2032) & (K Units)

Table 85. North America Single Cartridge Mechanical Seals Sales Quantity by Application (2021-2026) & (K Units)

Table 86. North America Single Cartridge Mechanical Seals Sales Quantity by Application (2027-2032) & (K Units)

Table 87. North America Single Cartridge Mechanical Seals Sales Quantity by Country (2021-2026) & (K Units)

Table 88. North America Single Cartridge Mechanical Seals Sales Quantity by Country (2027-2032) & (K Units)

Table 89. North America Single Cartridge Mechanical Seals Consumption Value by Country (2021-2026) & (USD Million)

Table 90. North America Single Cartridge Mechanical Seals Consumption Value by Country (2027-2032) & (USD Million)

Table 91. Europe Single Cartridge Mechanical Seals Sales Quantity by Type (2021-2026) & (K Units)

Table 92. Europe Single Cartridge Mechanical Seals Sales Quantity by Type

(2027-2032) & (K Units)

Table 93. Europe Single Cartridge Mechanical Seals Sales Quantity by Application (2021-2026) & (K Units)

Table 94. Europe Single Cartridge Mechanical Seals Sales Quantity by Application (2027-2032) & (K Units)

Table 95. Europe Single Cartridge Mechanical Seals Sales Quantity by Country (2021-2026) & (K Units)

Table 96. Europe Single Cartridge Mechanical Seals Sales Quantity by Country (2027-2032) & (K Units)

Table 97. Europe Single Cartridge Mechanical Seals Consumption Value by Country (2021-2026) & (USD Million)

Table 98. Europe Single Cartridge Mechanical Seals Consumption Value by Country (2027-2032) & (USD Million)

Table 99. Asia-Pacific Single Cartridge Mechanical Seals Sales Quantity by Type (2021-2026) & (K Units)

Table 100. Asia-Pacific Single Cartridge Mechanical Seals Sales Quantity by Type (2027-2032) & (K Units)

Table 101. Asia-Pacific Single Cartridge Mechanical Seals Sales Quantity by Application (2021-2026) & (K Units)

Table 102. Asia-Pacific Single Cartridge Mechanical Seals Sales Quantity by Application (2027-2032) & (K Units)

Table 103. Asia-Pacific Single Cartridge Mechanical Seals Sales Quantity by Region (2021-2026) & (K Units)

Table 104. Asia-Pacific Single Cartridge Mechanical Seals Sales Quantity by Region (2027-2032) & (K Units)

Table 105. Asia-Pacific Single Cartridge Mechanical Seals Consumption Value by Region (2021-2026) & (USD Million)

Table 106. Asia-Pacific Single Cartridge Mechanical Seals Consumption Value by Region (2027-2032) & (USD Million)

Table 107. South America Single Cartridge Mechanical Seals Sales Quantity by Type (2021-2026) & (K Units)

Table 108. South America Single Cartridge Mechanical Seals Sales Quantity by Type (2027-2032) & (K Units)

Table 109. South America Single Cartridge Mechanical Seals Sales Quantity by Application (2021-2026) & (K Units)

Table 110. South America Single Cartridge Mechanical Seals Sales Quantity by Application (2027-2032) & (K Units)

Table 111. South America Single Cartridge Mechanical Seals Sales Quantity by Country (2021-2026) & (K Units)

Table 112. South America Single Cartridge Mechanical Seals Sales Quantity by Country (2027-2032) & (K Units)

Table 113. South America Single Cartridge Mechanical Seals Consumption Value by Country (2021-2026) & (USD Million)

Table 114. South America Single Cartridge Mechanical Seals Consumption Value by Country (2027-2032) & (USD Million)

Table 115. Middle East & Africa Single Cartridge Mechanical Seals Sales Quantity by Type (2021-2026) & (K Units)

Table 116. Middle East & Africa Single Cartridge Mechanical Seals Sales Quantity by Type (2027-2032) & (K Units)

Table 117. Middle East & Africa Single Cartridge Mechanical Seals Sales Quantity by Application (2021-2026) & (K Units)

Table 118. Middle East & Africa Single Cartridge Mechanical Seals Sales Quantity by Application (2027-2032) & (K Units)

Table 119. Middle East & Africa Single Cartridge Mechanical Seals Sales Quantity by Country (2021-2026) & (K Units)

Table 120. Middle East & Africa Single Cartridge Mechanical Seals Sales Quantity by Country (2027-2032) & (K Units)

Table 121. Middle East & Africa Single Cartridge Mechanical Seals Consumption Value by Country (2021-2026) & (USD Million)

Table 122. Middle East & Africa Single Cartridge Mechanical Seals Consumption Value by Country (2027-2032) & (USD Million)

Table 123. Single Cartridge Mechanical Seals Raw Material

Table 124. Key Manufacturers of Single Cartridge Mechanical Seals Raw Materials

Table 125. Single Cartridge Mechanical Seals Typical Distributors

Table 126. Single Cartridge Mechanical Seals Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Single Cartridge Mechanical Seals Picture

Figure 2. Global Single Cartridge Mechanical Seals Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Single Cartridge Mechanical Seals Revenue Market Share by Type in 2025

Figure 4. Single-end Face Examples

Figure 5. Double-end Face Examples

Figure 6. Global Single Cartridge Mechanical Seals Revenue by Combination Category, (USD Million), 2021 & 2025 & 2032

Figure 7. Global Single Cartridge Mechanical Seals Revenue Market Share by Combination Category in 2025

Figure 8. Silicon Carbide vs. Silicon Carbide Examples

Figure 9. Silicon Carbide vs. Cemented Carbide Examples

Figure 10. Cemented Carbide vs. Graphite Examples

Figure 11. Others Examples

Figure 12. Global Single Cartridge Mechanical Seals Revenue by Flushing Solution, (USD Million), 2021 & 2025 & 2032

Figure 13. Global Single Cartridge Mechanical Seals Revenue Market Share by Flushing Solution in 2025

Figure 14. Self-rinsing Examples

Figure 15. External Rinsing Examples

Figure 16. Global Single Cartridge Mechanical Seals Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 17. Global Single Cartridge Mechanical Seals Revenue Market Share by Application in 2025

Figure 18. Petroleum Examples

Figure 19. Electricity Examples

Figure 20. Food Examples

Figure 21. Pharmaceuticals Examples

Figure 22. Others Examples

Figure 23. Global Single Cartridge Mechanical Seals Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 24. Global Single Cartridge Mechanical Seals Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 25. Global Single Cartridge Mechanical Seals Sales Quantity (2021-2032) & (K

Units)

Figure 26. Global Single Cartridge Mechanical Seals Price (2021-2032) & (US\$/Unit)

Figure 27. Global Single Cartridge Mechanical Seals Sales Quantity Market Share by Manufacturer in 2025

Figure 28. Global Single Cartridge Mechanical Seals Revenue Market Share by Manufacturer in 2025

Figure 29. Producer Shipments of Single Cartridge Mechanical Seals by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 30. Top 3 Single Cartridge Mechanical Seals Manufacturer (Revenue) Market Share in 2025

Figure 31. Top 6 Single Cartridge Mechanical Seals Manufacturer (Revenue) Market Share in 2025

Figure 32. Global Single Cartridge Mechanical Seals Sales Quantity Market Share by Region (2021-2032)

Figure 33. Global Single Cartridge Mechanical Seals Consumption Value Market Share by Region (2021-2032)

Figure 34. North America Single Cartridge Mechanical Seals Consumption Value (2021-2032) & (USD Million)

Figure 35. Europe Single Cartridge Mechanical Seals Consumption Value (2021-2032) & (USD Million)

Figure 36. Asia-Pacific Single Cartridge Mechanical Seals Consumption Value (2021-2032) & (USD Million)

Figure 37. South America Single Cartridge Mechanical Seals Consumption Value (2021-2032) & (USD Million)

Figure 38. Middle East & Africa Single Cartridge Mechanical Seals Consumption Value (2021-2032) & (USD Million)

Figure 39. Global Single Cartridge Mechanical Seals Sales Quantity Market Share by Type (2021-2032)

Figure 40. Global Single Cartridge Mechanical Seals Consumption Value Market Share by Type (2021-2032)

Figure 41. Global Single Cartridge Mechanical Seals Average Price by Type (2021-2032) & (US\$/Unit)

Figure 42. Global Single Cartridge Mechanical Seals Sales Quantity Market Share by Application (2021-2032)

Figure 43. Global Single Cartridge Mechanical Seals Revenue Market Share by Application (2021-2032)

Figure 44. Global Single Cartridge Mechanical Seals Average Price by Application (2021-2032) & (US\$/Unit)

Figure 45. North America Single Cartridge Mechanical Seals Sales Quantity Market

Share by Type (2021-2032)

Figure 46. North America Single Cartridge Mechanical Seals Sales Quantity Market

Share by Application (2021-2032)

Figure 47. North America Single Cartridge Mechanical Seals Sales Quantity Market

Share by Country (2021-2032)

Figure 48. North America Single Cartridge Mechanical Seals Consumption Value

Market Share by Country (2021-2032)

Figure 49. United States Single Cartridge Mechanical Seals Consumption Value

(2021-2032) & (USD Million)

Figure 50. Canada Single Cartridge Mechanical Seals Consumption Value (2021-2032)

& (USD Million)

Figure 51. Mexico Single Cartridge Mechanical Seals Consumption Value (2021-2032)

& (USD Million)

Figure 52. Europe Single Cartridge Mechanical Seals Sales Quantity Market Share by

Type (2021-2032)

Figure 53. Europe Single Cartridge Mechanical Seals Sales Quantity Market Share by

Application (2021-2032)

Figure 54. Europe Single Cartridge Mechanical Seals Sales Quantity Market Share by

Country (2021-2032)

Figure 55. Europe Single Cartridge Mechanical Seals Consumption Value Market Share

by Country (2021-2032)

Figure 56. Germany Single Cartridge Mechanical Seals Consumption Value

(2021-2032) & (USD Million)

Figure 57. France Single Cartridge Mechanical Seals Consumption Value (2021-2032)

& (USD Million)

Figure 58. United Kingdom Single Cartridge Mechanical Seals Consumption Value

(2021-2032) & (USD Million)

Figure 59. Russia Single Cartridge Mechanical Seals Consumption Value (2021-2032)

& (USD Million)

Figure 60. Italy Single Cartridge Mechanical Seals Consumption Value (2021-2032) &

(USD Million)

Figure 61. Asia-Pacific Single Cartridge Mechanical Seals Sales Quantity Market Share

by Type (2021-2032)

Figure 62. Asia-Pacific Single Cartridge Mechanical Seals Sales Quantity Market Share

by Application (2021-2032)

Figure 63. Asia-Pacific Single Cartridge Mechanical Seals Sales Quantity Market Share

by Region (2021-2032)

Figure 64. Asia-Pacific Single Cartridge Mechanical Seals Consumption Value Market

Share by Region (2021-2032)

Figure 65. China Single Cartridge Mechanical Seals Consumption Value (2021-2032) & (USD Million)

Figure 66. Japan Single Cartridge Mechanical Seals Consumption Value (2021-2032) & (USD Million)

Figure 67. South Korea Single Cartridge Mechanical Seals Consumption Value (2021-2032) & (USD Million)

Figure 68. India Single Cartridge Mechanical Seals Consumption Value (2021-2032) & (USD Million)

Figure 69. Southeast Asia Single Cartridge Mechanical Seals Consumption Value (2021-2032) & (USD Million)

Figure 70. Australia Single Cartridge Mechanical Seals Consumption Value (2021-2032) & (USD Million)

Figure 71. South America Single Cartridge Mechanical Seals Sales Quantity Market Share by Type (2021-2032)

Figure 72. South America Single Cartridge Mechanical Seals Sales Quantity Market Share by Application (2021-2032)

Figure 73. South America Single Cartridge Mechanical Seals Sales Quantity Market Share by Country (2021-2032)

Figure 74. South America Single Cartridge Mechanical Seals Consumption Value Market Share by Country (2021-2032)

Figure 75. Brazil Single Cartridge Mechanical Seals Consumption Value (2021-2032) & (USD Million)

Figure 76. Argentina Single Cartridge Mechanical Seals Consumption Value (2021-2032) & (USD Million)

Figure 77. Middle East & Africa Single Cartridge Mechanical Seals Sales Quantity Market Share by Type (2021-2032)

Figure 78. Middle East & Africa Single Cartridge Mechanical Seals Sales Quantity Market Share by Application (2021-2032)

Figure 79. Middle East & Africa Single Cartridge Mechanical Seals Sales Quantity Market Share by Country (2021-2032)

Figure 80. Middle East & Africa Single Cartridge Mechanical Seals Consumption Value Market Share by Country (2021-2032)

Figure 81. Turkey Single Cartridge Mechanical Seals Consumption Value (2021-2032) & (USD Million)

Figure 82. Egypt Single Cartridge Mechanical Seals Consumption Value (2021-2032) & (USD Million)

Figure 83. Saudi Arabia Single Cartridge Mechanical Seals Consumption Value (2021-2032) & (USD Million)

Figure 84. South Africa Single Cartridge Mechanical Seals Consumption Value

(2021-2032) & (USD Million)

Figure 85. Single Cartridge Mechanical Seals Market Drivers

Figure 86. Single Cartridge Mechanical Seals Market Restraints

Figure 87. Single Cartridge Mechanical Seals Market Trends

Figure 88. Porters Five Forces Analysis

Figure 89. Manufacturing Cost Structure Analysis of Single Cartridge Mechanical Seals in 2025

Figure 90. Manufacturing Process Analysis of Single Cartridge Mechanical Seals

Figure 91. Single Cartridge Mechanical Seals Industrial Chain

Figure 92. Sales Channel: Direct to End-User vs Distributors

Figure 93. Direct Channel Pros & Cons

Figure 94. Indirect Channel Pros & Cons

Figure 95. Methodology

Figure 96. Research Process and Data Source

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