

Global Loop Reactor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Loop Reactor market size is expected to reach \$ 319 million by 2032, rising at a market growth of 5.4% CAGR during the forecast period (2026-2032).

A loop reactor is a continuous or semi-continuous reaction system in which the reaction medium is circulated through a closed loop to enhance mixing, heat transfer, mass transfer, and process safety. It is widely used in gas-liquid reactions, hydrogenation, polymerization, fermentation-related circulation systems, and other highly exothermic or mass-transfer-sensitive processes where stable temperature control and uniform reaction conditions are critical. In 2025, Global loop reactor shipments are estimated at 520 units, with an average ex-works price of 420 k US\$/unit and global installed manufacturing capacity is about 780 units per year, with a gross margin range of 28%-40%.

The main growth driver of the loop reactor market is the increasing demand for safer and more efficient reaction systems in highly exothermic or mass-transfer-limited chemical processes. As producers seek higher selectivity, tighter temperature control, lower energy use, and better scale-up performance in hydrogenation, polymerization, and specialty chemicals, loop reactors gain attractiveness because they offer stronger heat removal, more homogeneous reaction conditions, and more stable continuous operation than many conventional reactor configurations.

This report studies the global Loop Reactor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Loop Reactor 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 Loop Reactor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Loop Reactor total production and demand, 2021-2032, (Units)

Global Loop Reactor total production value, 2021-2032, (USD Million)

Global Loop Reactor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Loop Reactor consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Loop Reactor domestic production, consumption, key domestic manufacturers and share

Global Loop Reactor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Loop Reactor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Loop Reactor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Loop Reactor 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 Larsen & Toubro Heavy Engineering, Walkers Engineering, Chart Industries, WOORYANG HC, Zeton, Unitel Technologies, PMG ChemTech, BUSS ChemTech, Crystal TCS, 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 Loop Reactor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K 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 Loop Reactor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Loop Reactor Market, Segmentation by Type:

Low Pressure

Medium Pressure

High Pressure

Global Loop Reactor Market, Segmentation by Reaction Mode:

Continuous

Semi-continuous

Batch-circulation

Global Loop Reactor Market, Segmentation by Process Type:

Gas-liquid

Liquid-liquid

Global Loop Reactor Market, Segmentation by Application:

Polyethylene Plants

Polypropylene Plants

Others

Companies Profiled:

Larsen & Toubro Heavy Engineering

Walkers Engineering

Chart Industries

WOOYANG HC

Zeton

Unitel Technologies

PMG ChemTech

BUSS ChemTech

Crystal TCS

Key Questions Answered:

1. How big is the global Loop Reactor market?
2. What is the demand of the global Loop Reactor market?
3. What is the year over year growth of the global Loop Reactor market?

4. What is the production and production value of the global Loop Reactor market?
5. Who are the key producers in the global Loop Reactor market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Loop Reactor Production Value by Manufacturer (2021-2026)

- 3.2 World Loop Reactor Production by Manufacturer (2021-2026)
- 3.3 World Loop Reactor Average Price by Manufacturer (2021-2026)
- 3.4 Loop Reactor Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Loop Reactor Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Loop Reactor in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Loop Reactor in 2025
- 3.6 Loop Reactor Market: Overall Company Footprint Analysis
 - 3.6.1 Loop Reactor Market: Region Footprint
 - 3.6.2 Loop Reactor Market: Company Product Type Footprint
 - 3.6.3 Loop Reactor 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: Loop Reactor Production Value Comparison
 - 4.1.1 United States VS China: Loop Reactor Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Loop Reactor Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Loop Reactor Production Comparison
 - 4.2.1 United States VS China: Loop Reactor Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Loop Reactor Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Loop Reactor Consumption Comparison
 - 4.3.1 United States VS China: Loop Reactor Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Loop Reactor Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Loop Reactor Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Loop Reactor Manufacturers, Headquarters and Production Site (States, Country)
 - 4.4.2 United States Based Manufacturers Loop Reactor Production Value (2021-2026)

- 4.4.3 United States Based Manufacturers Loop Reactor Production (2021-2026)
- 4.5 China Based Loop Reactor Manufacturers and Market Share
 - 4.5.1 China Based Loop Reactor Manufacturers, Headquarters and Production Site (Province, Country)
 - 4.5.2 China Based Manufacturers Loop Reactor Production Value (2021-2026)
 - 4.5.3 China Based Manufacturers Loop Reactor Production (2021-2026)
- 4.6 Rest of World Based Loop Reactor Manufacturers and Market Share, 2021-2026
 - 4.6.1 Rest of World Based Loop Reactor Manufacturers, Headquarters and Production Site (State, Country)
 - 4.6.2 Rest of World Based Manufacturers Loop Reactor Production Value (2021-2026)
 - 4.6.3 Rest of World Based Manufacturers Loop Reactor Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

- 5.1 World Loop Reactor Market Size Overview by Type: 2021 VS 2025 VS 2032
- 5.2 Segment Introduction by Type
 - 5.2.1 Low Pressure
 - 5.2.2 Medium Pressure
 - 5.2.3 High Pressure
- 5.3 Market Segment by Type
 - 5.3.1 World Loop Reactor Production by Type (2021-2032)
 - 5.3.2 World Loop Reactor Production Value by Type (2021-2032)
 - 5.3.3 World Loop Reactor Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY REACTION MODE

- 6.1 World Loop Reactor Market Size Overview by Reaction Mode: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Reaction Mode
 - 6.2.1 Continuous
 - 6.2.2 Semi-continuous
 - 6.2.3 Batch-circulation
- 6.3 Market Segment by Reaction Mode
 - 6.3.1 World Loop Reactor Production by Reaction Mode (2021-2032)
 - 6.3.2 World Loop Reactor Production Value by Reaction Mode (2021-2032)
 - 6.3.3 World Loop Reactor Average Price by Reaction Mode (2021-2032)

7 MARKET ANALYSIS BY PROCESS TYPE

7.1 World Loop Reactor Market Size Overview by Process Type: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Process Type

7.2.1 Gas-liquid

7.2.2 Liquid-liquid

7.3 Market Segment by Process Type

7.3.1 World Loop Reactor Production by Process Type (2021-2032)

7.3.2 World Loop Reactor Production Value by Process Type (2021-2032)

7.3.3 World Loop Reactor Average Price by Process Type (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Loop Reactor Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Polyethylene Plants

8.2.2 Polypropylene Plants

8.2.3 Others

8.3 Market Segment by Application

8.3.1 World Loop Reactor Production by Application (2021-2032)

8.3.2 World Loop Reactor Production Value by Application (2021-2032)

8.3.3 World Loop Reactor Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Larsen & Toubro Heavy Engineering

9.1.1 Larsen & Toubro Heavy Engineering Details

9.1.2 Larsen & Toubro Heavy Engineering Major Business

9.1.3 Larsen & Toubro Heavy Engineering Loop Reactor Product and Services

9.1.4 Larsen & Toubro Heavy Engineering Loop Reactor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Larsen & Toubro Heavy Engineering Recent Developments/Updates

9.1.6 Larsen & Toubro Heavy Engineering Competitive Strengths & Weaknesses

9.2 Walkers Engineering

9.2.1 Walkers Engineering Details

9.2.2 Walkers Engineering Major Business

9.2.3 Walkers Engineering Loop Reactor Product and Services

9.2.4 Walkers Engineering Loop Reactor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Walkers Engineering Recent Developments/Updates

- 9.2.6 Walkers Engineering Competitive Strengths & Weaknesses
- 9.3 Chart Industries
 - 9.3.1 Chart Industries Details
 - 9.3.2 Chart Industries Major Business
 - 9.3.3 Chart Industries Loop Reactor Product and Services
 - 9.3.4 Chart Industries Loop Reactor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Chart Industries Recent Developments/Updates
 - 9.3.6 Chart Industries Competitive Strengths & Weaknesses
- 9.4 WOORYANG HC
 - 9.4.1 WOORYANG HC Details
 - 9.4.2 WOORYANG HC Major Business
 - 9.4.3 WOORYANG HC Loop Reactor Product and Services
 - 9.4.4 WOORYANG HC Loop Reactor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 WOORYANG HC Recent Developments/Updates
 - 9.4.6 WOORYANG HC Competitive Strengths & Weaknesses
- 9.5 Zeton
 - 9.5.1 Zeton Details
 - 9.5.2 Zeton Major Business
 - 9.5.3 Zeton Loop Reactor Product and Services
 - 9.5.4 Zeton Loop Reactor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Zeton Recent Developments/Updates
 - 9.5.6 Zeton Competitive Strengths & Weaknesses
- 9.6 Unitel Technologies
 - 9.6.1 Unitel Technologies Details
 - 9.6.2 Unitel Technologies Major Business
 - 9.6.3 Unitel Technologies Loop Reactor Product and Services
 - 9.6.4 Unitel Technologies Loop Reactor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Unitel Technologies Recent Developments/Updates
 - 9.6.6 Unitel Technologies Competitive Strengths & Weaknesses
- 9.7 PMG ChemTech
 - 9.7.1 PMG ChemTech Details
 - 9.7.2 PMG ChemTech Major Business
 - 9.7.3 PMG ChemTech Loop Reactor Product and Services
 - 9.7.4 PMG ChemTech Loop Reactor Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.7.5 PMG ChemTech Recent Developments/Updates
- 9.7.6 PMG ChemTech Competitive Strengths & Weaknesses
- 9.8 BUSS ChemTech
 - 9.8.1 BUSS ChemTech Details
 - 9.8.2 BUSS ChemTech Major Business
 - 9.8.3 BUSS ChemTech Loop Reactor Product and Services
 - 9.8.4 BUSS ChemTech Loop Reactor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 BUSS ChemTech Recent Developments/Updates
 - 9.8.6 BUSS ChemTech Competitive Strengths & Weaknesses
- 9.9 Crystal TCS
 - 9.9.1 Crystal TCS Details
 - 9.9.2 Crystal TCS Major Business
 - 9.9.3 Crystal TCS Loop Reactor Product and Services
 - 9.9.4 Crystal TCS Loop Reactor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Crystal TCS Recent Developments/Updates
 - 9.9.6 Crystal TCS Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Loop Reactor Industry Chain
- 10.2 Loop Reactor Upstream Analysis
 - 10.2.1 Loop Reactor Core Raw Materials
 - 10.2.2 Main Manufacturers of Loop Reactor Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Loop Reactor Production Mode
- 10.6 Loop Reactor Procurement Model
- 10.7 Loop Reactor Industry Sales Model and Sales Channels
 - 10.7.1 Loop Reactor Sales Model
 - 10.7.2 Loop Reactor 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 Loop Reactor Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Loop Reactor Production Value by Region (2021-2026) & (USD Million)

Table 3. World Loop Reactor Production Value by Region (2027-2032) & (USD Million)

Table 4. World Loop Reactor Production Value Market Share by Region (2021-2026)

Table 5. World Loop Reactor Production Value Market Share by Region (2027-2032)

Table 6. World Loop Reactor Production by Region (2021-2026) & (Units)

Table 7. World Loop Reactor Production by Region (2027-2032) & (Units)

Table 8. World Loop Reactor Production Market Share by Region (2021-2026)

Table 9. World Loop Reactor Production Market Share by Region (2027-2032)

Table 10. World Loop Reactor Average Price by Region (2021-2026) & (K US\$/Unit)

Table 11. World Loop Reactor Average Price by Region (2027-2032) & (K US\$/Unit)

Table 12. Loop Reactor Major Market Trends

Table 13. World Loop Reactor Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Loop Reactor Consumption by Region (2021-2026) & (Units)

Table 15. World Loop Reactor Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Loop Reactor Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Loop Reactor Producers in 2025

Table 18. World Loop Reactor Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Loop Reactor Producers in 2025

Table 20. World Loop Reactor Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 21. Global Loop Reactor Company Evaluation Quadrant

Table 22. World Loop Reactor Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Loop Reactor Production Site of Key Manufacturer

Table 24. Loop Reactor Market: Company Product Type Footprint

Table 25. Loop Reactor Market: Company Product Application Footprint

Table 26. Loop Reactor Competitive Factors

Table 27. Loop Reactor New Entrant and Capacity Expansion Plans

Table 28. Loop Reactor Mergers & Acquisitions Activity

Table 29. United States VS China Loop Reactor Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Loop Reactor Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Loop Reactor Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Loop Reactor Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Loop Reactor Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Loop Reactor Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Loop Reactor Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Loop Reactor Production Market Share (2021-2026)

Table 37. China Based Loop Reactor Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Loop Reactor Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Loop Reactor Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Loop Reactor Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Loop Reactor Production Market Share (2021-2026)

Table 42. Rest of World Based Loop Reactor Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Loop Reactor Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Loop Reactor Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Loop Reactor Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Loop Reactor Production Market Share (2021-2026)

Table 47. World Loop Reactor Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Loop Reactor Production by Type (2021-2026) & (Units)

Table 49. World Loop Reactor Production by Type (2027-2032) & (Units)

Table 50. World Loop Reactor Production Value by Type (2021-2026) & (USD Million)

Table 51. World Loop Reactor Production Value by Type (2027-2032) & (USD Million)

Table 52. World Loop Reactor Average Price by Type (2021-2026) & (K US\$/Unit)

Table 53. World Loop Reactor Average Price by Type (2027-2032) & (K US\$/Unit)

Table 54. World Loop Reactor Production Value by Reaction Mode, (USD Million), 2021 & 2025 & 2032

Table 55. World Loop Reactor Production by Reaction Mode (2021-2026) & (Units)

Table 56. World Loop Reactor Production by Reaction Mode (2027-2032) & (Units)

Table 57. World Loop Reactor Production Value by Reaction Mode (2021-2026) & (USD Million)

Table 58. World Loop Reactor Production Value by Reaction Mode (2027-2032) & (USD Million)

Table 59. World Loop Reactor Average Price by Reaction Mode (2021-2026) & (K US\$/Unit)

Table 60. World Loop Reactor Average Price by Reaction Mode (2027-2032) & (K US\$/Unit)

Table 61. World Loop Reactor Production Value by Process Type, (USD Million), 2021 & 2025 & 2032

Table 62. World Loop Reactor Production by Process Type (2021-2026) & (Units)

Table 63. World Loop Reactor Production by Process Type (2027-2032) & (Units)

Table 64. World Loop Reactor Production Value by Process Type (2021-2026) & (USD Million)

Table 65. World Loop Reactor Production Value by Process Type (2027-2032) & (USD Million)

Table 66. World Loop Reactor Average Price by Process Type (2021-2026) & (K US\$/Unit)

Table 67. World Loop Reactor Average Price by Process Type (2027-2032) & (K US\$/Unit)

Table 68. World Loop Reactor Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Loop Reactor Production by Application (2021-2026) & (Units)

Table 70. World Loop Reactor Production by Application (2027-2032) & (Units)

Table 71. World Loop Reactor Production Value by Application (2021-2026) & (USD Million)

Table 72. World Loop Reactor Production Value by Application (2027-2032) & (USD Million)

Table 73. World Loop Reactor Average Price by Application (2021-2026) & (K US\$/Unit)

Table 74. World Loop Reactor Average Price by Application (2027-2032) & (K US\$/Unit)

Table 75. Larsen & Toubro Heavy Engineering Basic Information, Manufacturing Base and Competitors

Table 76. Larsen & Toubro Heavy Engineering Major Business

Table 77. Larsen & Toubro Heavy Engineering Loop Reactor Product and Services

Table 78. Larsen & Toubro Heavy Engineering Loop Reactor Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Larsen & Toubro Heavy Engineering Recent Developments/Updates

Table 80. Larsen & Toubro Heavy Engineering Competitive Strengths & Weaknesses

Table 81. Walkers Engineering Basic Information, Manufacturing Base and Competitors

Table 82. Walkers Engineering Major Business

Table 83. Walkers Engineering Loop Reactor Product and Services

Table 84. Walkers Engineering Loop Reactor Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Walkers Engineering Recent Developments/Updates

Table 86. Walkers Engineering Competitive Strengths & Weaknesses

Table 87. Chart Industries Basic Information, Manufacturing Base and Competitors

Table 88. Chart Industries Major Business

Table 89. Chart Industries Loop Reactor Product and Services

Table 90. Chart Industries Loop Reactor Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Chart Industries Recent Developments/Updates

Table 92. Chart Industries Competitive Strengths & Weaknesses

Table 93. WOORYANG HC Basic Information, Manufacturing Base and Competitors

Table 94. WOORYANG HC Major Business

Table 95. WOORYANG HC Loop Reactor Product and Services

Table 96. WOORYANG HC Loop Reactor Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. WOORYANG HC Recent Developments/Updates

Table 98. WOORYANG HC Competitive Strengths & Weaknesses

Table 99. Zeton Basic Information, Manufacturing Base and Competitors

Table 100. Zeton Major Business

Table 101. Zeton Loop Reactor Product and Services

Table 102. Zeton Loop Reactor Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Zeton Recent Developments/Updates

Table 104. Zeton Competitive Strengths & Weaknesses

Table 105. Unitel Technologies Basic Information, Manufacturing Base and Competitors

Table 106. Unitel Technologies Major Business

Table 107. Unitel Technologies Loop Reactor Product and Services

Table 108. Unitel Technologies Loop Reactor Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 109. Unitel Technologies Recent Developments/Updates
- Table 110. Unitel Technologies Competitive Strengths & Weaknesses
- Table 111. PMG ChemTech Basic Information, Manufacturing Base and Competitors
- Table 112. PMG ChemTech Major Business
- Table 113. PMG ChemTech Loop Reactor Product and Services
- Table 114. PMG ChemTech Loop Reactor Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. PMG ChemTech Recent Developments/Updates
- Table 116. PMG ChemTech Competitive Strengths & Weaknesses
- Table 117. BUSS ChemTech Basic Information, Manufacturing Base and Competitors
- Table 118. BUSS ChemTech Major Business
- Table 119. BUSS ChemTech Loop Reactor Product and Services
- Table 120. BUSS ChemTech Loop Reactor Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. BUSS ChemTech Recent Developments/Updates
- Table 122. BUSS ChemTech Competitive Strengths & Weaknesses
- Table 123. Crystal TCS Basic Information, Manufacturing Base and Competitors
- Table 124. Crystal TCS Major Business
- Table 125. Crystal TCS Loop Reactor Product and Services
- Table 126. Crystal TCS Loop Reactor Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Crystal TCS Recent Developments/Updates
- Table 128. Crystal TCS Competitive Strengths & Weaknesses
- Table 129. Global Key Players of Loop Reactor Upstream (Raw Materials)
- Table 130. Global Loop Reactor Typical Customers
- Table 131. Loop Reactor Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Loop Reactor Picture
- Figure 2. World Loop Reactor Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Loop Reactor Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Loop Reactor Production (2021-2032) & (Units)
- Figure 5. World Loop Reactor Average Price (2021-2032) & (K US\$/Unit)
- Figure 6. World Loop Reactor Production Value Market Share by Region (2021-2032)
- Figure 7. World Loop Reactor Production Market Share by Region (2021-2032)
- Figure 8. North America Loop Reactor Production (2021-2032) & (Units)
- Figure 9. Europe Loop Reactor Production (2021-2032) & (Units)
- Figure 10. China Loop Reactor Production (2021-2032) & (Units)
- Figure 11. Japan Loop Reactor Production (2021-2032) & (Units)
- Figure 12. Loop Reactor Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World Loop Reactor Consumption (2021-2032) & (Units)
- Figure 15. World Loop Reactor Consumption Market Share by Region (2021-2032)
- Figure 16. United States Loop Reactor Consumption (2021-2032) & (Units)
- Figure 17. China Loop Reactor Consumption (2021-2032) & (Units)
- Figure 18. Europe Loop Reactor Consumption (2021-2032) & (Units)
- Figure 19. Japan Loop Reactor Consumption (2021-2032) & (Units)
- Figure 20. South Korea Loop Reactor Consumption (2021-2032) & (Units)
- Figure 21. ASEAN Loop Reactor Consumption (2021-2032) & (Units)
- Figure 22. India Loop Reactor Consumption (2021-2032) & (Units)
- Figure 23. Producer Shipments of Loop Reactor by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 24. Global Four-firm Concentration Ratios (CR4) for Loop Reactor Markets in 2025
- Figure 25. Global Four-firm Concentration Ratios (CR8) for Loop Reactor Markets in 2025
- Figure 26. United States VS China: Loop Reactor Production Value Market Share Comparison (2021 & 2025 & 2032)
- Figure 27. United States VS China: Loop Reactor Production Market Share Comparison (2021 & 2025 & 2032)
- Figure 28. United States VS China: Loop Reactor Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Loop Reactor Production Market Share 2025

Figure 30. China Based Manufacturers Loop Reactor Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Loop Reactor Production Market Share 2025

Figure 32. World Loop Reactor Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Loop Reactor Production Value Market Share by Type in 2025

Figure 34. Low Pressure

Figure 35. Medium Pressure

Figure 36. High Pressure

Figure 37. World Loop Reactor Production Market Share by Type (2021-2032)

Figure 38. World Loop Reactor Production Value Market Share by Type (2021-2032)

Figure 39. World Loop Reactor Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 40. World Loop Reactor Production Value by Reaction Mode, (USD Million), 2021 & 2025 & 2032

Figure 41. World Loop Reactor Production Value Market Share by Reaction Mode in 2025

Figure 42. Continuous

Figure 43. Semi-continuous

Figure 44. Batch-circulation

Figure 45. World Loop Reactor Production Market Share by Reaction Mode (2021-2032)

Figure 46. World Loop Reactor Production Value Market Share by Reaction Mode (2021-2032)

Figure 47. World Loop Reactor Average Price by Reaction Mode (2021-2032) & (K US\$/Unit)

Figure 48. World Loop Reactor Production Value by Process Type, (USD Million), 2021 & 2025 & 2032

Figure 49. World Loop Reactor Production Value Market Share by Process Type in 2025

Figure 50. Gas-liquid

Figure 51. Liquid-liquid

Figure 52. World Loop Reactor Production Market Share by Process Type (2021-2032)

Figure 53. World Loop Reactor Production Value Market Share by Process Type (2021-2032)

Figure 54. World Loop Reactor Average Price by Process Type (2021-2032) & (K US\$/Unit)

Figure 55. World Loop Reactor Production Value by Application, (USD Million), 2021 &

2025 & 2032

Figure 56. World Loop Reactor Production Value Market Share by Application in 2025

Figure 57. Polyethylene Plants

Figure 58. Polypropylene Plants

Figure 59. Others

Figure 60. World Loop Reactor Production Market Share by Application (2021-2032)

Figure 61. World Loop Reactor Production Value Market Share by Application (2021-2032)

Figure 62. World Loop Reactor Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 63. Loop Reactor Industry Chain

Figure 64. Loop Reactor Procurement Model

Figure 65. Loop Reactor Sales Model

Figure 66. Loop Reactor Sales Channels, Direct Sales, and Distribution

Figure 67. Methodology

Figure 68. Research Process and Data Source

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