

Global Hydrogen Expander Market Growth 2026-2032

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Abstracts

The global Hydrogen Expander market size is predicted to grow from US\$ 930 million in 2025 to US\$ 1452 million in 2032; it is expected to grow at a CAGR of 6.5% from 2026 to 2032.

A hydrogen expander is a mechanical device used in the hydrogen processing process. It allows high-pressure hydrogen to expand and drive the expander to work, thereby reducing the temperature of hydrogen and achieving hydrogen liquefaction, separation or energy recovery. This equipment is widely used in natural gas processing, chemical production, energy storage and industrial gas processing, aiming to improve process efficiency, save energy and reduce environmental impact.

The hydrogen expander industry chain encompasses upstream key raw material and component suppliers (such as high-strength alloys, bearings, seals, and precision machined parts), midstream hydrogen expander manufacturers (responsible for design, processing, assembly, and performance optimization), and downstream application areas, including hydrogen fuel cell power generation systems, hydrogen compression and storage systems, hydrogen production and liquefaction cooling devices, and hydrogen-powered aerospace propulsion. The industry chain also involves supporting control systems, sensors, and maintenance services, providing critical technical support and complete equipment solutions for the hydrogen energy industry.

In 2025, the average price of a hydrogen expander is projected to be US\$700 k per unit, with sales of 1,358 units and a gross profit margin of approximately 33%.

Hydrogen expanders play a vital role in the industrial and energy fields. Through efficient hydrogen processing and energy recovery technology, they not only improve the efficiency of the production process, but also significantly reduce energy consumption and operating costs. As the global demand for clean energy and

sustainable development continues to increase, hydrogen expanders will become one of the key technologies to promote the development of the hydrogen economy and provide strong technical support for achieving a low-carbon future.

LP Information, Inc. (LPI) ' newest research report, the "Hydrogen Expander Industry Forecast" looks at past sales and reviews total world Hydrogen Expander sales in 2025, providing a comprehensive analysis by region and market sector of projected Hydrogen Expander sales for 2026 through 2032. With Hydrogen Expander sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Hydrogen Expander industry.

This Insight Report provides a comprehensive analysis of the global Hydrogen Expander landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Hydrogen Expander portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Hydrogen Expander market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Hydrogen Expander and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Hydrogen Expander.

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

Segmentation by Type:

Radial Expander

Axial Flow Expander

Others

Segmentation by Bearing Support Type:

Mechanical Bearing Expander

Magnetic Levitation Bearing Expander

Segmentation by Cooling Method:

Air-Cooled Expander

Liquid-Cooled Expander

Segmentation by Application:

Chemical Industry

Energy Industry

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Air Products

Linde AG

Chart Industries

Cryostar

Atlas Copco

Elliott Group

Everllence

Mitsubishi Heavy Industries

Siemens Energy

Honeywell

GE

Howden Group

Key Questions Addressed in this Report

What is the 10-year outlook for the global Hydrogen Expander market?

What factors are driving Hydrogen Expander market growth, globally and by region?

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

How do Hydrogen Expander market opportunities vary by end market size?

How does Hydrogen Expander break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Hydrogen Expander Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Hydrogen Expander by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Hydrogen Expander by Country/Region, 2021, 2025 & 2032

2.2 Hydrogen Expander Segment by Type

- 2.2.1 Radial Expander
- 2.2.2 Axial Flow Expander
- 2.2.3 Others
- 2.2.4 Hydrogen Expander Sales by Type
 - 2.2.4.1 Global Hydrogen Expander Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Hydrogen Expander Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Hydrogen Expander Sale Price by Type (2021-2026)

2.3 Hydrogen Expander Segment by Bearing Support Type

- 2.3.1 Mechanical Bearing Expander
- 2.3.2 Magnetic Levitation Bearing Expander
- 2.3.3 Hydrogen Expander Sales by Bearing Support Type
 - 2.3.3.1 Global Hydrogen Expander Sales Market Share by Bearing Support Type (2021-2026)
 - 2.3.3.2 Global Hydrogen Expander Revenue and Market Share by Bearing Support Type (2021-2026)
 - 2.3.3.3 Global Hydrogen Expander Sale Price by Bearing Support Type (2021-2026)

2.4 Hydrogen Expander Segment by Cooling Method

- 2.4.1 Air-Cooled Expander
- 2.4.2 Liquid-Cooled Expander
- 2.4.3 Hydrogen Expander Sales by Cooling Method
 - 2.4.3.1 Global Hydrogen Expander Sales Market Share by Cooling Method (2021-2026)
 - 2.4.3.2 Global Hydrogen Expander Revenue and Market Share by Cooling Method (2021-2026)
 - 2.4.3.3 Global Hydrogen Expander Sale Price by Cooling Method (2021-2026)
- 2.5 Hydrogen Expander Segment by Application
 - 2.5.1 Chemical Industry
 - 2.5.2 Energy Industry
 - 2.5.3 Others
 - 2.5.4 Hydrogen Expander Sales by Application
 - 2.5.4.1 Global Hydrogen Expander Sale Market Share by Application (2021-2026)
 - 2.5.4.2 Global Hydrogen Expander Revenue and Market Share by Application (2021-2026)
 - 2.5.4.3 Global Hydrogen Expander Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

- 3.1 Global Hydrogen Expander Breakdown Data by Company
 - 3.1.1 Global Hydrogen Expander Annual Sales by Company (2021-2026)
 - 3.1.2 Global Hydrogen Expander Sales Market Share by Company (2021-2026)
- 3.2 Global Hydrogen Expander Annual Revenue by Company (2021-2026)
 - 3.2.1 Global Hydrogen Expander Revenue by Company (2021-2026)
 - 3.2.2 Global Hydrogen Expander Revenue Market Share by Company (2021-2026)
- 3.3 Global Hydrogen Expander Sale Price by Company
- 3.4 Key Manufacturers Hydrogen Expander Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Hydrogen Expander Product Location Distribution
 - 3.4.2 Players Hydrogen Expander Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR HYDROGEN EXPANDER BY GEOGRAPHIC REGION

- 4.1 World Historic Hydrogen Expander Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Hydrogen Expander Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Hydrogen Expander Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Hydrogen Expander Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Hydrogen Expander Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Hydrogen Expander Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Hydrogen Expander Sales Growth
- 4.4 APAC Hydrogen Expander Sales Growth
- 4.5 Europe Hydrogen Expander Sales Growth
- 4.6 Middle East & Africa Hydrogen Expander Sales Growth

5 AMERICAS

- 5.1 Americas Hydrogen Expander Sales by Country
 - 5.1.1 Americas Hydrogen Expander Sales by Country (2021-2026)
 - 5.1.2 Americas Hydrogen Expander Revenue by Country (2021-2026)
- 5.2 Americas Hydrogen Expander Sales by Type (2021-2026)
- 5.3 Americas Hydrogen Expander Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Hydrogen Expander Sales by Region
 - 6.1.1 APAC Hydrogen Expander Sales by Region (2021-2026)
 - 6.1.2 APAC Hydrogen Expander Revenue by Region (2021-2026)
- 6.2 APAC Hydrogen Expander Sales by Type (2021-2026)
- 6.3 APAC Hydrogen Expander Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

7.1 Europe Hydrogen Expander by Country

7.1.1 Europe Hydrogen Expander Sales by Country (2021-2026)

7.1.2 Europe Hydrogen Expander Revenue by Country (2021-2026)

7.2 Europe Hydrogen Expander Sales by Type (2021-2026)

7.3 Europe Hydrogen Expander Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Hydrogen Expander by Country

8.1.1 Middle East & Africa Hydrogen Expander Sales by Country (2021-2026)

8.1.2 Middle East & Africa Hydrogen Expander Revenue by Country (2021-2026)

8.2 Middle East & Africa Hydrogen Expander Sales by Type (2021-2026)

8.3 Middle East & Africa Hydrogen Expander Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Hydrogen Expander

10.3 Manufacturing Process Analysis of Hydrogen Expander

10.4 Industry Chain Structure of Hydrogen Expander

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Hydrogen Expander Distributors

11.3 Hydrogen Expander Customer

12 WORLD FORECAST REVIEW FOR HYDROGEN EXPANDER BY GEOGRAPHIC REGION

12.1 Global Hydrogen Expander Market Size Forecast by Region

12.1.1 Global Hydrogen Expander Forecast by Region (2027-2032)

12.1.2 Global Hydrogen Expander Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Hydrogen Expander Forecast by Type (2027-2032)

12.7 Global Hydrogen Expander Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Air Products

13.1.1 Air Products Company Information

13.1.2 Air Products Hydrogen Expander Product Portfolios and Specifications

13.1.3 Air Products Hydrogen Expander Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Air Products Main Business Overview

13.1.5 Air Products Latest Developments

13.2 Linde AG

13.2.1 Linde AG Company Information

13.2.2 Linde AG Hydrogen Expander Product Portfolios and Specifications

13.2.3 Linde AG Hydrogen Expander Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Linde AG Main Business Overview

13.2.5 Linde AG Latest Developments

13.3 Chart Industries

13.3.1 Chart Industries Company Information

- 13.3.2 Chart Industries Hydrogen Expander Product Portfolios and Specifications
- 13.3.3 Chart Industries Hydrogen Expander Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.3.4 Chart Industries Main Business Overview
- 13.3.5 Chart Industries Latest Developments
- 13.4 Cryostar
 - 13.4.1 Cryostar Company Information
 - 13.4.2 Cryostar Hydrogen Expander Product Portfolios and Specifications
 - 13.4.3 Cryostar Hydrogen Expander Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 Cryostar Main Business Overview
 - 13.4.5 Cryostar Latest Developments
- 13.5 Atlas Copco
 - 13.5.1 Atlas Copco Company Information
 - 13.5.2 Atlas Copco Hydrogen Expander Product Portfolios and Specifications
 - 13.5.3 Atlas Copco Hydrogen Expander Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Atlas Copco Main Business Overview
 - 13.5.5 Atlas Copco Latest Developments
- 13.6 Elliott Group
 - 13.6.1 Elliott Group Company Information
 - 13.6.2 Elliott Group Hydrogen Expander Product Portfolios and Specifications
 - 13.6.3 Elliott Group Hydrogen Expander Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Elliott Group Main Business Overview
 - 13.6.5 Elliott Group Latest Developments
- 13.7 Everllence
 - 13.7.1 Everllence Company Information
 - 13.7.2 Everllence Hydrogen Expander Product Portfolios and Specifications
 - 13.7.3 Everllence Hydrogen Expander Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Everllence Main Business Overview
 - 13.7.5 Everllence Latest Developments
- 13.8 Mitsubishi Heavy Industries
 - 13.8.1 Mitsubishi Heavy Industries Company Information
 - 13.8.2 Mitsubishi Heavy Industries Hydrogen Expander Product Portfolios and Specifications
 - 13.8.3 Mitsubishi Heavy Industries Hydrogen Expander Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.8.4 Mitsubishi Heavy Industries Main Business Overview
- 13.8.5 Mitsubishi Heavy Industries Latest Developments
- 13.9 Siemens Energy
 - 13.9.1 Siemens Energy Company Information
 - 13.9.2 Siemens Energy Hydrogen Expander Product Portfolios and Specifications
 - 13.9.3 Siemens Energy Hydrogen Expander Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 Siemens Energy Main Business Overview
 - 13.9.5 Siemens Energy Latest Developments
- 13.10 Honeywell
 - 13.10.1 Honeywell Company Information
 - 13.10.2 Honeywell Hydrogen Expander Product Portfolios and Specifications
 - 13.10.3 Honeywell Hydrogen Expander Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 Honeywell Main Business Overview
 - 13.10.5 Honeywell Latest Developments
- 13.11 GE
 - 13.11.1 GE Company Information
 - 13.11.2 GE Hydrogen Expander Product Portfolios and Specifications
 - 13.11.3 GE Hydrogen Expander Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 GE Main Business Overview
 - 13.11.5 GE Latest Developments
- 13.12 Howden Group
 - 13.12.1 Howden Group Company Information
 - 13.12.2 Howden Group Hydrogen Expander Product Portfolios and Specifications
 - 13.12.3 Howden Group Hydrogen Expander Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.12.4 Howden Group Main Business Overview
 - 13.12.5 Howden Group Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Hydrogen Expander Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Hydrogen Expander Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Radial Expander

Table 4. Major Players of Axial Flow Expander

Table 5. Major Players of Others

Table 6. Global Hydrogen Expander Sales by Type (2021-2026) & (Units)

Table 7. Global Hydrogen Expander Sales Market Share by Type (2021-2026)

Table 8. Global Hydrogen Expander Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Hydrogen Expander Revenue Market Share by Type (2021-2026)

Table 10. Global Hydrogen Expander Sale Price by Type (2021-2026) & (K US\$/Unit)

Table 11. Major Players of Mechanical Bearing Expander

Table 12. Major Players of Magnetic Levitation Bearing Expander

Table 13. Global Hydrogen Expander Sales by Bearing Support Type (2021-2026) & (Units)

Table 14. Global Hydrogen Expander Sales Market Share by Bearing Support Type (2021-2026)

Table 15. Global Hydrogen Expander Revenue by Bearing Support Type (2021-2026) & (\$ million)

Table 16. Global Hydrogen Expander Revenue Market Share by Bearing Support Type (2021-2026)

Table 17. Global Hydrogen Expander Sale Price by Bearing Support Type (2021-2026) & (K US\$/Unit)

Table 18. Major Players of Air-Cooled Expander

Table 19. Major Players of Liquid-Cooled Expander

Table 20. Global Hydrogen Expander Sales by Cooling Method (2021-2026) & (Units)

Table 21. Global Hydrogen Expander Sales Market Share by Cooling Method (2021-2026)

Table 22. Global Hydrogen Expander Revenue by Cooling Method (2021-2026) & (\$ million)

Table 23. Global Hydrogen Expander Revenue Market Share by Cooling Method (2021-2026)

Table 24. Global Hydrogen Expander Sale Price by Cooling Method (2021-2026) & (K US\$/Unit)

Table 25. Global Hydrogen Expander Sale by Application (2021-2026) & (Units)
Table 26. Global Hydrogen Expander Sale Market Share by Application (2021-2026)
Table 27. Global Hydrogen Expander Revenue by Application (2021-2026) & (\$ million)
Table 28. Global Hydrogen Expander Revenue Market Share by Application (2021-2026)
Table 29. Global Hydrogen Expander Sale Price by Application (2021-2026) & (K US\$/Unit)
Table 30. Global Hydrogen Expander Sales by Company (2021-2026) & (Units)
Table 31. Global Hydrogen Expander Sales Market Share by Company (2021-2026)
Table 32. Global Hydrogen Expander Revenue by Company (2021-2026) & (\$ millions)
Table 33. Global Hydrogen Expander Revenue Market Share by Company (2021-2026)
Table 34. Global Hydrogen Expander Sale Price by Company (2021-2026) & (K US\$/Unit)
Table 35. Key Manufacturers Hydrogen Expander Producing Area Distribution and Sales Area
Table 36. Players Hydrogen Expander Products Offered
Table 37. Hydrogen Expander Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 38. New Products and Potential Entrants
Table 39. Market M&A Activity & Strategy
Table 40. Global Hydrogen Expander Sales by Geographic Region (2021-2026) & (Units)
Table 41. Global Hydrogen Expander Sales Market Share Geographic Region (2021-2026)
Table 42. Global Hydrogen Expander Revenue by Geographic Region (2021-2026) & (\$ millions)
Table 43. Global Hydrogen Expander Revenue Market Share by Geographic Region (2021-2026)
Table 44. Global Hydrogen Expander Sales by Country/Region (2021-2026) & (Units)
Table 45. Global Hydrogen Expander Sales Market Share by Country/Region (2021-2026)
Table 46. Global Hydrogen Expander Revenue by Country/Region (2021-2026) & (\$ millions)
Table 47. Global Hydrogen Expander Revenue Market Share by Country/Region (2021-2026)
Table 48. Americas Hydrogen Expander Sales by Country (2021-2026) & (Units)
Table 49. Americas Hydrogen Expander Sales Market Share by Country (2021-2026)
Table 50. Americas Hydrogen Expander Revenue by Country (2021-2026) & (\$ millions)
Table 51. Americas Hydrogen Expander Sales by Type (2021-2026) & (Units)

Table 52. Americas Hydrogen Expander Sales by Application (2021-2026) & (Units)
Table 53. APAC Hydrogen Expander Sales by Region (2021-2026) & (Units)
Table 54. APAC Hydrogen Expander Sales Market Share by Region (2021-2026)
Table 55. APAC Hydrogen Expander Revenue by Region (2021-2026) & (\$ millions)
Table 56. APAC Hydrogen Expander Sales by Type (2021-2026) & (Units)
Table 57. APAC Hydrogen Expander Sales by Application (2021-2026) & (Units)
Table 58. Europe Hydrogen Expander Sales by Country (2021-2026) & (Units)
Table 59. Europe Hydrogen Expander Revenue by Country (2021-2026) & (\$ millions)
Table 60. Europe Hydrogen Expander Sales by Type (2021-2026) & (Units)
Table 61. Europe Hydrogen Expander Sales by Application (2021-2026) & (Units)
Table 62. Middle East & Africa Hydrogen Expander Sales by Country (2021-2026) & (Units)
Table 63. Middle East & Africa Hydrogen Expander Revenue Market Share by Country (2021-2026)
Table 64. Middle East & Africa Hydrogen Expander Sales by Type (2021-2026) & (Units)
Table 65. Middle East & Africa Hydrogen Expander Sales by Application (2021-2026) & (Units)
Table 66. Key Market Drivers & Growth Opportunities of Hydrogen Expander
Table 67. Key Market Challenges & Risks of Hydrogen Expander
Table 68. Key Industry Trends of Hydrogen Expander
Table 69. Hydrogen Expander Raw Material
Table 70. Key Suppliers of Raw Materials
Table 71. Hydrogen Expander Distributors List
Table 72. Hydrogen Expander Customer List
Table 73. Global Hydrogen Expander Sales Forecast by Region (2027-2032) & (Units)
Table 74. Global Hydrogen Expander Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 75. Americas Hydrogen Expander Sales Forecast by Country (2027-2032) & (Units)
Table 76. Americas Hydrogen Expander Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 77. APAC Hydrogen Expander Sales Forecast by Region (2027-2032) & (Units)
Table 78. APAC Hydrogen Expander Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 79. Europe Hydrogen Expander Sales Forecast by Country (2027-2032) & (Units)
Table 80. Europe Hydrogen Expander Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 81. Middle East & Africa Hydrogen Expander Sales Forecast by Country

(2027-2032) & (Units)

Table 82. Middle East & Africa Hydrogen Expander Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 83. Global Hydrogen Expander Sales Forecast by Type (2027-2032) & (Units)

Table 84. Global Hydrogen Expander Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 85. Global Hydrogen Expander Sales Forecast by Application (2027-2032) & (Units)

Table 86. Global Hydrogen Expander Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 87. Air Products Basic Information, Hydrogen Expander Manufacturing Base, Sales Area and Its Competitors

Table 88. Air Products Hydrogen Expander Product Portfolios and Specifications

Table 89. Air Products Hydrogen Expander Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 90. Air Products Main Business

Table 91. Air Products Latest Developments

Table 92. Linde AG Basic Information, Hydrogen Expander Manufacturing Base, Sales Area and Its Competitors

Table 93. Linde AG Hydrogen Expander Product Portfolios and Specifications

Table 94. Linde AG Hydrogen Expander Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 95. Linde AG Main Business

Table 96. Linde AG Latest Developments

Table 97. Chart Industries Basic Information, Hydrogen Expander Manufacturing Base, Sales Area and Its Competitors

Table 98. Chart Industries Hydrogen Expander Product Portfolios and Specifications

Table 99. Chart Industries Hydrogen Expander Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 100. Chart Industries Main Business

Table 101. Chart Industries Latest Developments

Table 102. Cryostar Basic Information, Hydrogen Expander Manufacturing Base, Sales Area and Its Competitors

Table 103. Cryostar Hydrogen Expander Product Portfolios and Specifications

Table 104. Cryostar Hydrogen Expander Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 105. Cryostar Main Business

Table 106. Cryostar Latest Developments

Table 107. Atlas Copco Basic Information, Hydrogen Expander Manufacturing Base,

Sales Area and Its Competitors

Table 108. Atlas Copco Hydrogen Expander Product Portfolios and Specifications

Table 109. Atlas Copco Hydrogen Expander Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 110. Atlas Copco Main Business

Table 111. Atlas Copco Latest Developments

Table 112. Elliott Group Basic Information, Hydrogen Expander Manufacturing Base, Sales Area and Its Competitors

Table 113. Elliott Group Hydrogen Expander Product Portfolios and Specifications

Table 114. Elliott Group Hydrogen Expander Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 115. Elliott Group Main Business

Table 116. Elliott Group Latest Developments

Table 117. Everllence Basic Information, Hydrogen Expander Manufacturing Base, Sales Area and Its Competitors

Table 118. Everllence Hydrogen Expander Product Portfolios and Specifications

Table 119. Everllence Hydrogen Expander Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 120. Everllence Main Business

Table 121. Everllence Latest Developments

Table 122. Mitsubishi Heavy Industries Basic Information, Hydrogen Expander Manufacturing Base, Sales Area and Its Competitors

Table 123. Mitsubishi Heavy Industries Hydrogen Expander Product Portfolios and Specifications

Table 124. Mitsubishi Heavy Industries Hydrogen Expander Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 125. Mitsubishi Heavy Industries Main Business

Table 126. Mitsubishi Heavy Industries Latest Developments

Table 127. Siemens Energy Basic Information, Hydrogen Expander Manufacturing Base, Sales Area and Its Competitors

Table 128. Siemens Energy Hydrogen Expander Product Portfolios and Specifications

Table 129. Siemens Energy Hydrogen Expander Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 130. Siemens Energy Main Business

Table 131. Siemens Energy Latest Developments

Table 132. Honeywell Basic Information, Hydrogen Expander Manufacturing Base, Sales Area and Its Competitors

Table 133. Honeywell Hydrogen Expander Product Portfolios and Specifications

Table 134. Honeywell Hydrogen Expander Sales (Units), Revenue (\$ Million), Price (K

US\$/Unit) and Gross Margin (2021-2026)

Table 135. Honeywell Main Business

Table 136. Honeywell Latest Developments

Table 137. GE Basic Information, Hydrogen Expander Manufacturing Base, Sales Area and Its Competitors

Table 138. GE Hydrogen Expander Product Portfolios and Specifications

Table 139. GE Hydrogen Expander Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 140. GE Main Business

Table 141. GE Latest Developments

Table 142. Howden Group Basic Information, Hydrogen Expander Manufacturing Base, Sales Area and Its Competitors

Table 143. Howden Group Hydrogen Expander Product Portfolios and Specifications

Table 144. Howden Group Hydrogen Expander Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 145. Howden Group Main Business

Table 146. Howden Group Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Hydrogen Expander
- Figure 2. Hydrogen Expander Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Hydrogen Expander Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global Hydrogen Expander Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Hydrogen Expander Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Hydrogen Expander Sales Market Share by Country/Region (2025)
- Figure 10. Hydrogen Expander Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Radial Expander
- Figure 12. Product Picture of Axial Flow Expander
- Figure 13. Product Picture of Others
- Figure 14. Global Hydrogen Expander Sales Market Share by Type in 2026
- Figure 15. Global Hydrogen Expander Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of Mechanical Bearing Expander
- Figure 17. Product Picture of Magnetic Levitation Bearing Expander
- Figure 18. Global Hydrogen Expander Sales Market Share by Bearing Support Type in 2026
- Figure 19. Global Hydrogen Expander Revenue Market Share by Bearing Support Type (2021-2026)
- Figure 20. Product Picture of Air-Cooled Expander
- Figure 21. Product Picture of Liquid-Cooled Expander
- Figure 22. Global Hydrogen Expander Sales Market Share by Cooling Method in 2026
- Figure 23. Global Hydrogen Expander Revenue Market Share by Cooling Method (2021-2026)
- Figure 24. Hydrogen Expander Consumed in Chemical Industry
- Figure 25. Global Hydrogen Expander Market: Chemical Industry (2021-2026) & (Units)
- Figure 26. Hydrogen Expander Consumed in Energy Industry
- Figure 27. Global Hydrogen Expander Market: Energy Industry (2021-2026) & (Units)
- Figure 28. Hydrogen Expander Consumed in Others
- Figure 29. Global Hydrogen Expander Market: Others (2021-2026) & (Units)
- Figure 30. Global Hydrogen Expander Sale Market Share by Application (2025)

Figure 31. Global Hydrogen Expander Revenue Market Share by Application in 2026

Figure 32. Hydrogen Expander Sales by Company in 2026 (Units)

Figure 33. Global Hydrogen Expander Sales Market Share by Company in 2026

Figure 34. Hydrogen Expander Revenue by Company in 2026 (\$ millions)

Figure 35. Global Hydrogen Expander Revenue Market Share by Company in 2026

Figure 36. Global Hydrogen Expander Sales Market Share by Geographic Region (2021-2026)

Figure 37. Global Hydrogen Expander Revenue Market Share by Geographic Region in 2026

Figure 38. Americas Hydrogen Expander Sales 2021-2026 (Units)

Figure 39. Americas Hydrogen Expander Revenue 2021-2026 (\$ millions)

Figure 40. APAC Hydrogen Expander Sales 2021-2026 (Units)

Figure 41. APAC Hydrogen Expander Revenue 2021-2026 (\$ millions)

Figure 42. Europe Hydrogen Expander Sales 2021-2026 (Units)

Figure 43. Europe Hydrogen Expander Revenue 2021-2026 (\$ millions)

Figure 44. Middle East & Africa Hydrogen Expander Sales 2021-2026 (Units)

Figure 45. Middle East & Africa Hydrogen Expander Revenue 2021-2026 (\$ millions)

Figure 46. Americas Hydrogen Expander Sales Market Share by Country in 2026

Figure 47. Americas Hydrogen Expander Revenue Market Share by Country (2021-2026)

Figure 48. Americas Hydrogen Expander Sales Market Share by Type (2021-2026)

Figure 49. Americas Hydrogen Expander Sales Market Share by Application (2021-2026)

Figure 50. United States Hydrogen Expander Revenue Growth 2021-2026 (\$ millions)

Figure 51. Canada Hydrogen Expander Revenue Growth 2021-2026 (\$ millions)

Figure 52. Mexico Hydrogen Expander Revenue Growth 2021-2026 (\$ millions)

Figure 53. Brazil Hydrogen Expander Revenue Growth 2021-2026 (\$ millions)

Figure 54. APAC Hydrogen Expander Sales Market Share by Region in 2026

Figure 55. APAC Hydrogen Expander Revenue Market Share by Region (2021-2026)

Figure 56. APAC Hydrogen Expander Sales Market Share by Type (2021-2026)

Figure 57. APAC Hydrogen Expander Sales Market Share by Application (2021-2026)

Figure 58. China Hydrogen Expander Revenue Growth 2021-2026 (\$ millions)

Figure 59. Japan Hydrogen Expander Revenue Growth 2021-2026 (\$ millions)

Figure 60. South Korea Hydrogen Expander Revenue Growth 2021-2026 (\$ millions)

Figure 61. Southeast Asia Hydrogen Expander Revenue Growth 2021-2026 (\$ millions)

Figure 62. India Hydrogen Expander Revenue Growth 2021-2026 (\$ millions)

Figure 63. Australia Hydrogen Expander Revenue Growth 2021-2026 (\$ millions)

Figure 64. China Taiwan Hydrogen Expander Revenue Growth 2021-2026 (\$ millions)

Figure 65. Europe Hydrogen Expander Sales Market Share by Country in 2026

- Figure 66. Europe Hydrogen Expander Revenue Market Share by Country (2021-2026)
- Figure 67. Europe Hydrogen Expander Sales Market Share by Type (2021-2026)
- Figure 68. Europe Hydrogen Expander Sales Market Share by Application (2021-2026)
- Figure 69. Germany Hydrogen Expander Revenue Growth 2021-2026 (\$ millions)
- Figure 70. France Hydrogen Expander Revenue Growth 2021-2026 (\$ millions)
- Figure 71. UK Hydrogen Expander Revenue Growth 2021-2026 (\$ millions)
- Figure 72. Italy Hydrogen Expander Revenue Growth 2021-2026 (\$ millions)
- Figure 73. Russia Hydrogen Expander Revenue Growth 2021-2026 (\$ millions)
- Figure 74. Middle East & Africa Hydrogen Expander Sales Market Share by Country (2021-2026)
- Figure 75. Middle East & Africa Hydrogen Expander Sales Market Share by Type (2021-2026)
- Figure 76. Middle East & Africa Hydrogen Expander Sales Market Share by Application (2021-2026)
- Figure 77. Egypt Hydrogen Expander Revenue Growth 2021-2026 (\$ millions)
- Figure 78. South Africa Hydrogen Expander Revenue Growth 2021-2026 (\$ millions)
- Figure 79. Israel Hydrogen Expander Revenue Growth 2021-2026 (\$ millions)
- Figure 80. Turkey Hydrogen Expander Revenue Growth 2021-2026 (\$ millions)
- Figure 81. GCC Countries Hydrogen Expander Revenue Growth 2021-2026 (\$ millions)
- Figure 82. Manufacturing Cost Structure Analysis of Hydrogen Expander in 2026
- Figure 83. Manufacturing Process Analysis of Hydrogen Expander
- Figure 84. Industry Chain Structure of Hydrogen Expander
- Figure 85. Channels of Distribution
- Figure 86. Global Hydrogen Expander Sales Market Forecast by Region (2027-2032)
- Figure 87. Global Hydrogen Expander Revenue Market Share Forecast by Region (2027-2032)
- Figure 88. Global Hydrogen Expander Sales Market Share Forecast by Type (2027-2032)
- Figure 89. Global Hydrogen Expander Revenue Market Share Forecast by Type (2027-2032)
- Figure 90. Global Hydrogen Expander Sales Market Share Forecast by Application (2027-2032)
- Figure 91. Global Hydrogen Expander Revenue Market Share Forecast by Application (2027-2032)

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