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Global Green Hydrogen Compressor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Green Hydrogen Compressor market size is expected to reach $ 2076 million by 2032, rising at a market growth of 17.8% CAGR during the forecast period (2026-2032).

In 2025, global Green Hydrogen Compressor production reached approximately 540 units, with an average global market price of around USD 1,250,000 per unit.

The gross profit margin of major companies in the industry is between 25%–38%.

In 2025, the global production capacity of Green Hydrogen Compressor was approximately 720 units.

Green Hydrogen Compressors are specialized high-pressure compression systems used to raise the pressure of hydrogen produced through renewable-powered electrolysis or other low-carbon production pathways. They are designed to handle hydrogen's low molecular weight, high diffusivity, and demanding sealing requirements while providing reliable compression across different pressure ranges. Depending on the application, technologies may include reciprocating, diaphragm, ionic, centrifugal, or other compression configurations. These compressors are used in hydrogen production plants, storage facilities, refueling stations, pipelines, industrial gas systems, and renewable hydrogen hubs. The product boundary covers compressor equipment specifically intended for hydrogen produced within green hydrogen production and supply chains.

The upstream industry supplies compressor cylinders, diaphragms, pistons, valves, seals, bearings, motors, drives, pressure vessels, control systems, and hydrogen-

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compatible materials. The midstream industry designs, manufactures, assembles, tests, and packages hydrogen compressors, integrating compression stages, lubrication or sealing systems, cooling systems, pressure control, and safety protection. The downstream market includes electrolytic hydrogen production plants, hydrogen storage facilities, refueling stations, pipelines, industrial hydrogen users, and integrated renewable hydrogen projects. Demand is driven by the expansion of green hydrogen production, increasing storage and transportation requirements, hydrogen mobility infrastructure, and the need to compress hydrogen to high pressures for industrial and energy applications.

Report Scope

This report studies the global Green Hydrogen Compressor production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Green Hydrogen Compressor total production and demand, 2021-2032, (Units)

Global Green Hydrogen Compressor total production value, 2021-2032, (USD Million)

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

Global Green Hydrogen Compressor consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Green Hydrogen Compressor domestic production, consumption, key domestic manufacturers and share

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Global Green Hydrogen Compressor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Green Hydrogen Compressor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Green Hydrogen Compressor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Green Hydrogen Compressor 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 Atlas Copco AB, Burckhardt Compression Holding AG, NEUMAN & ESSER Group, Baker Hughes Company, PDC Machines Inc., Howden Group, Mitsui E&S Co., Ltd., Fluitron, Inc., HyET Hydrogen B.V., CIMC Enric Holdings Limited, 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 Green Hydrogen Compressor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Units) and average price (US$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Green Hydrogen Compressor Market, By Region:

United States

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China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Green Hydrogen Compressor Market, Segmentation by Type:

Reciprocating Compressor

Diaphragm Compressor

Hydraulic Compressor

Global Green Hydrogen Compressor Market, Segmentation by Hydrogen Supply Stage:

Electrolyzer Outlet Compressor

Hydrogen Storage Compressor

Hydrogen Refueling Compressor

Global Green Hydrogen Compressor Market, Segmentation by Discharge Pressure:

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Low Pressure Compressor (<30 MPa)

Medium Pressure Compressor (30–70 MPa)

High Pressure Compressor (>70 MPa)

Global Green Hydrogen Compressor Market, Segmentation by Application:

Green Hydrogen Production Plants

Hydrogen Storage Facilities

Hydrogen Refueling Stations

Other

Companies Profiled:

Atlas Copco AB

Burckhardt Compression Holding AG

NEUMAN & ESSER Group

Baker Hughes Company

PDC Machines Inc.

Howden Group

Mitsui E&S Co., Ltd.

Fluitron, Inc.

HyET Hydrogen B.V.

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CIMC Enric Holdings Limited

Sany Hydrogen Energy Co., Ltd.

Qingdao Compress Energy Technology Co., Ltd.

Shenyang Blower Works Group Corporation

Beijing Tianhai Industry Co., Ltd.

Xi'an Huyang Technology Co., Ltd.

Key Questions Answered

1. How big is the global Green Hydrogen Compressor market?
2. What is the demand of the global Green Hydrogen Compressor market?
3. What is the year over year growth of the global Green Hydrogen Compressor market?
4. What is the total value of the global Green Hydrogen Compressor market?
5. Who are the Major Players in the global Green Hydrogen Compressor market?
6. What are the growth factors driving the market demand?

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Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

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

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

5 MARKET ANALYSIS BY TYPE

5.1 World Green Hydrogen Compressor Market Size Overview by Type: 2021 VS 2025 VS 2032
5.2 Segment Introduction by Type
5.2.1 Reciprocating Compressor
5.2.2 Diaphragm Compressor
5.2.3 Hydraulic Compressor
5.3 Market Segment by Type
5.3.1 World Green Hydrogen Compressor Production by Type (2021-2032)
5.3.2 World Green Hydrogen Compressor Production Value by Type (2021-2032)
5.3.3 World Green Hydrogen Compressor Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY HYDROGEN SUPPLY STAGE

6.1 World Green Hydrogen Compressor Market Size Overview by Hydrogen Supply

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Stage: 2021 VS 2025 VS 2032
6.2 Segment Introduction by Hydrogen Supply Stage
  6.2.1 Electrolyzer Outlet Compressor
  6.2.2 Hydrogen Storage Compressor
  6.2.3 Hydrogen Refueling Compressor
6.3 Market Segment by Hydrogen Supply Stage
  6.3.1 World Green Hydrogen Compressor Production by Hydrogen Supply Stage (2021-2032)
  6.3.2 World Green Hydrogen Compressor Production Value by Hydrogen Supply Stage (2021-2032)
  6.3.3 World Green Hydrogen Compressor Average Price by Hydrogen Supply Stage (2021-2032)

7 MARKET ANALYSIS BY DISCHARGE PRESSURE

7.1 World Green Hydrogen Compressor Market Size Overview by Discharge Pressure: 2021 VS 2025 VS 2032
7.2 Segment Introduction by Discharge Pressure
  7.2.1 Low Pressure Compressor (<30 MPa)
  7.2.2 Medium Pressure Compressor (30–70 MPa)
  7.2.3 High Pressure Compressor (>70 MPa)
7.3 Market Segment by Discharge Pressure
  7.3.1 World Green Hydrogen Compressor Production by Discharge Pressure (2021-2032)
  7.3.2 World Green Hydrogen Compressor Production Value by Discharge Pressure (2021-2032)
  7.3.3 World Green Hydrogen Compressor Average Price by Discharge Pressure (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Green Hydrogen Compressor Market Size Overview by Application: 2021 VS 2025 VS 2032
8.2 Segment Introduction by Application
  8.2.1 Green Hydrogen Production Plants
  8.2.2 Hydrogen Storage Facilities
  8.2.3 Hydrogen Refueling Stations
  8.2.4 Other
8.3 Market Segment by Application

+357 96 030922
info@marketpublishers.com

8.3.1 World Green Hydrogen Compressor Production by Application (2021-2032)
8.3.2 World Green Hydrogen Compressor Production Value by Application (2021-2032)
8.3.3 World Green Hydrogen Compressor Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Atlas Copco AB
9.1.1 Atlas Copco AB Details
9.1.2 Atlas Copco AB Major Business
9.1.3 Atlas Copco AB Green Hydrogen Compressor Product and Services
9.1.4 Atlas Copco AB Green Hydrogen Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.1.5 Atlas Copco AB Recent Developments/Updates
9.1.6 Atlas Copco AB Competitive Strengths & Weaknesses
9.2 Burckhardt Compression Holding AG
9.2.1 Burckhardt Compression Holding AG Details
9.2.2 Burckhardt Compression Holding AG Major Business
9.2.3 Burckhardt Compression Holding AG Green Hydrogen Compressor Product and Services
9.2.4 Burckhardt Compression Holding AG Green Hydrogen Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.2.5 Burckhardt Compression Holding AG Recent Developments/Updates
9.2.6 Burckhardt Compression Holding AG Competitive Strengths & Weaknesses
9.3 NEUMAN & ESSER Group
9.3.1 NEUMAN & ESSER Group Details
9.3.2 NEUMAN & ESSER Group Major Business
9.3.3 NEUMAN & ESSER Group Green Hydrogen Compressor Product and Services
9.3.4 NEUMAN & ESSER Group Green Hydrogen Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.3.5 NEUMAN & ESSER Group Recent Developments/Updates
9.3.6 NEUMAN & ESSER Group Competitive Strengths & Weaknesses
9.4 Baker Hughes Company
9.4.1 Baker Hughes Company Details
9.4.2 Baker Hughes Company Major Business
9.4.3 Baker Hughes Company Green Hydrogen Compressor Product and Services
9.4.4 Baker Hughes Company Green Hydrogen Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.4.5 Baker Hughes Company Recent Developments/Updates

+357 96 030922
info@marketpublishers.com

9.4.6 Baker Hughes Company Competitive Strengths & Weaknesses
9.5 PDC Machines Inc.
9.5.1 PDC Machines Inc. Details
9.5.2 PDC Machines Inc. Major Business
9.5.3 PDC Machines Inc. Green Hydrogen Compressor Product and Services
9.5.4 PDC Machines Inc. Green Hydrogen Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.5.5 PDC Machines Inc. Recent Developments/Updates
9.5.6 PDC Machines Inc. Competitive Strengths & Weaknesses
9.6 Howden Group
9.6.1 Howden Group Details
9.6.2 Howden Group Major Business
9.6.3 Howden Group Green Hydrogen Compressor Product and Services
9.6.4 Howden Group Green Hydrogen Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.6.5 Howden Group Recent Developments/Updates
9.6.6 Howden Group Competitive Strengths & Weaknesses
9.7 Mitsui E&S Co., Ltd.
9.7.1 Mitsui E&S Co., Ltd. Details
9.7.2 Mitsui E&S Co., Ltd. Major Business
9.7.3 Mitsui E&S Co., Ltd. Green Hydrogen Compressor Product and Services
9.7.4 Mitsui E&S Co., Ltd. Green Hydrogen Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.7.5 Mitsui E&S Co., Ltd. Recent Developments/Updates
9.7.6 Mitsui E&S Co., Ltd. Competitive Strengths & Weaknesses
9.8 Fluitron, Inc.
9.8.1 Fluitron, Inc. Details
9.8.2 Fluitron, Inc. Major Business
9.8.3 Fluitron, Inc. Green Hydrogen Compressor Product and Services
9.8.4 Fluitron, Inc. Green Hydrogen Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.8.5 Fluitron, Inc. Recent Developments/Updates
9.8.6 Fluitron, Inc. Competitive Strengths & Weaknesses
9.9 HyET Hydrogen B.V.
9.9.1 HyET Hydrogen B.V. Details
9.9.2 HyET Hydrogen B.V. Major Business
9.9.3 HyET Hydrogen B.V. Green Hydrogen Compressor Product and Services
9.9.4 HyET Hydrogen B.V. Green Hydrogen Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)

+357 96 030922
info@marketpublishers.com

9.9.5 HyET Hydrogen B.V. Recent Developments/Updates
9.9.6 HyET Hydrogen B.V. Competitive Strengths & Weaknesses
9.10 CIMC Enric Holdings Limited
9.10.1 CIMC Enric Holdings Limited Details
9.10.2 CIMC Enric Holdings Limited Major Business
9.10.3 CIMC Enric Holdings Limited Green Hydrogen Compressor Product and Services
9.10.4 CIMC Enric Holdings Limited Green Hydrogen Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.10.5 CIMC Enric Holdings Limited Recent Developments/Updates
9.10.6 CIMC Enric Holdings Limited Competitive Strengths & Weaknesses
9.11 Sany Hydrogen Energy Co., Ltd.
9.11.1 Sany Hydrogen Energy Co., Ltd. Details
9.11.2 Sany Hydrogen Energy Co., Ltd. Major Business
9.11.3 Sany Hydrogen Energy Co., Ltd. Green Hydrogen Compressor Product and Services
9.11.4 Sany Hydrogen Energy Co., Ltd. Green Hydrogen Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.11.5 Sany Hydrogen Energy Co., Ltd. Recent Developments/Updates
9.11.6 Sany Hydrogen Energy Co., Ltd. Competitive Strengths & Weaknesses
9.12 Qingdao Compress Energy Technology Co., Ltd.
9.12.1 Qingdao Compress Energy Technology Co., Ltd. Details
9.12.2 Qingdao Compress Energy Technology Co., Ltd. Major Business
9.12.3 Qingdao Compress Energy Technology Co., Ltd. Green Hydrogen Compressor Product and Services
9.12.4 Qingdao Compress Energy Technology Co., Ltd. Green Hydrogen Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.12.5 Qingdao Compress Energy Technology Co., Ltd. Recent Developments/Updates
9.12.6 Qingdao Compress Energy Technology Co., Ltd. Competitive Strengths & Weaknesses
9.13 Shenyang Blower Works Group Corporation
9.13.1 Shenyang Blower Works Group Corporation Details
9.13.2 Shenyang Blower Works Group Corporation Major Business
9.13.3 Shenyang Blower Works Group Corporation Green Hydrogen Compressor Product and Services
9.13.4 Shenyang Blower Works Group Corporation Green Hydrogen Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.13.5 Shenyang Blower Works Group Corporation Recent Developments/Updates

+357 96 030922
info@marketpublishers.com

9.13.6 Shenyang Blower Works Group Corporation Competitive Strengths & Weaknesses
9.14 Beijing Tianhai Industry Co., Ltd.
9.14.1 Beijing Tianhai Industry Co., Ltd. Details
9.14.2 Beijing Tianhai Industry Co., Ltd. Major Business
9.14.3 Beijing Tianhai Industry Co., Ltd. Green Hydrogen Compressor Product and Services
9.14.4 Beijing Tianhai Industry Co., Ltd. Green Hydrogen Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.14.5 Beijing Tianhai Industry Co., Ltd. Recent Developments/Updates
9.14.6 Beijing Tianhai Industry Co., Ltd. Competitive Strengths & Weaknesses
9.15 Xi'an Huyang Technology Co., Ltd.
9.15.1 Xi'an Huyang Technology Co., Ltd. Details
9.15.2 Xi'an Huyang Technology Co., Ltd. Major Business
9.15.3 Xi'an Huyang Technology Co., Ltd. Green Hydrogen Compressor Product and Services
9.15.4 Xi'an Huyang Technology Co., Ltd. Green Hydrogen Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.15.5 Xi'an Huyang Technology Co., Ltd. Recent Developments/Updates
9.15.6 Xi'an Huyang Technology Co., Ltd. Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Green Hydrogen Compressor Industry Chain
10.2 Green Hydrogen Compressor Upstream Analysis
10.2.1 Green Hydrogen Compressor Core Raw Materials
10.2.2 Main Manufacturers of Green Hydrogen Compressor Core Raw Materials
10.3 Midstream Analysis
10.4 Downstream Analysis
10.5 Green Hydrogen Compressor Production Mode
10.6 Green Hydrogen Compressor Procurement Model
10.7 Green Hydrogen Compressor Industry Sales Model and Sales Channels
10.7.1 Green Hydrogen Compressor Sales Model
10.7.2 Green Hydrogen Compressor Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

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12.1 Methodology
12.2 Research Process and Data Source
12.3 Disclaimer

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List Of Tables

LIST OF TABLES

Table 1. World Green Hydrogen Compressor Production Value by Region (2021, 2025 and 2032) & (USD Million)
Table 2. World Green Hydrogen Compressor Production Value by Region (2021-2026) & (USD Million)
Table 3. World Green Hydrogen Compressor Production Value by Region (2027-2032) & (USD Million)
Table 4. World Green Hydrogen Compressor Production Value Market Share by Region (2021-2026)
Table 5. World Green Hydrogen Compressor Production Value Market Share by Region (2027-2032)
Table 6. World Green Hydrogen Compressor Production by Region (2021-2026) & (Units)
Table 7. World Green Hydrogen Compressor Production by Region (2027-2032) & (Units)
Table 8. World Green Hydrogen Compressor Production Market Share by Region (2021-2026)
Table 9. World Green Hydrogen Compressor Production Market Share by Region (2027-2032)
Table 10. World Green Hydrogen Compressor Average Price by Region (2021-2026) & (US$/Unit)
Table 11. World Green Hydrogen Compressor Average Price by Region (2027-2032) & (US$/Unit)
Table 12. Green Hydrogen Compressor Major Market Trends
Table 13. World Green Hydrogen Compressor Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)
Table 14. World Green Hydrogen Compressor Consumption by Region (2021-2026) & (Units)
Table 15. World Green Hydrogen Compressor Consumption Forecast by Region (2027-2032) & (Units)
Table 16. World Green Hydrogen Compressor Production Value by Manufacturer (2021-2026) & (USD Million)
Table 17. Production Value Market Share of Key Green Hydrogen Compressor Producers in 2025
Table 18. World Green Hydrogen Compressor Production by Manufacturer (2021-2026) & (Units)

+357 96 030922
info@marketpublishers.com

Table 19. Production Market Share of Key Green Hydrogen Compressor Producers in 2025
Table 20. World Green Hydrogen Compressor Average Price by Manufacturer (2021-2026) & (US$/Unit)
Table 21. Global Green Hydrogen Compressor Company Evaluation Quadrant
Table 22. World Green Hydrogen Compressor Industry Rank of Major Manufacturers, Based on Production Value in 2025
Table 23. Head Office and Green Hydrogen Compressor Production Site of Key Manufacturer
Table 24. Green Hydrogen Compressor Market: Company Product Type Footprint
Table 25. Green Hydrogen Compressor Market: Company Product Application Footprint
Table 26. Green Hydrogen Compressor Competitive Factors
Table 27. Green Hydrogen Compressor New Entrant and Capacity Expansion Plans
Table 28. Green Hydrogen Compressor Mergers & Acquisitions Activity
Table 29. United States VS China Green Hydrogen Compressor Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China Green Hydrogen Compressor Production Comparison, (2021 & 2025 & 2032) & (Units)
Table 31. United States VS China Green Hydrogen Compressor Consumption Comparison, (2021 & 2025 & 2032) & (Units)
Table 32. United States Based Green Hydrogen Compressor Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers Green Hydrogen Compressor Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers Green Hydrogen Compressor Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers Green Hydrogen Compressor Production (2021-2026) & (Units)
Table 36. United States Based Manufacturers Green Hydrogen Compressor Production Market Share (2021-2026)
Table 37. China Based Green Hydrogen Compressor Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers Green Hydrogen Compressor Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers Green Hydrogen Compressor Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers Green Hydrogen Compressor Production, (2021-2026) & (Units)
Table 41. China Based Manufacturers Green Hydrogen Compressor Production Market

+357 96 030922
info@marketpublishers.com

Share (2021-2026)
Table 42. Rest of World Based Green Hydrogen Compressor Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers Green Hydrogen Compressor Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers Green Hydrogen Compressor Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers Green Hydrogen Compressor Production, (2021-2026) & (Units)
Table 46. Rest of World Based Manufacturers Green Hydrogen Compressor Production Market Share (2021-2026)
Table 47. World Green Hydrogen Compressor Production Value by Type, (USD Million), 2021 & 2025 & 2032
Table 48. World Green Hydrogen Compressor Production by Type (2021-2026) & (Units)
Table 49. World Green Hydrogen Compressor Production by Type (2027-2032) & (Units)
Table 50. World Green Hydrogen Compressor Production Value by Type (2021-2026) & (USD Million)
Table 51. World Green Hydrogen Compressor Production Value by Type (2027-2032) & (USD Million)
Table 52. World Green Hydrogen Compressor Average Price by Type (2021-2026) & (US$/Unit)
Table 53. World Green Hydrogen Compressor Average Price by Type (2027-2032) & (US$/Unit)
Table 54. World Green Hydrogen Compressor Production Value by Hydrogen Supply Stage, (USD Million), 2021 & 2025 & 2032
Table 55. World Green Hydrogen Compressor Production by Hydrogen Supply Stage (2021-2026) & (Units)
Table 56. World Green Hydrogen Compressor Production by Hydrogen Supply Stage (2027-2032) & (Units)
Table 57. World Green Hydrogen Compressor Production Value by Hydrogen Supply Stage (2021-2026) & (USD Million)
Table 58. World Green Hydrogen Compressor Production Value by Hydrogen Supply Stage (2027-2032) & (USD Million)
Table 59. World Green Hydrogen Compressor Average Price by Hydrogen Supply Stage (2021-2026) & (US$/Unit)
Table 60. World Green Hydrogen Compressor Average Price by Hydrogen Supply Stage (2027-2032) & (US$/Unit)

+357 96 030922
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Table 61. World Green Hydrogen Compressor Production Value by Discharge Pressure, (USD Million), 2021 & 2025 & 2032
Table 62. World Green Hydrogen Compressor Production by Discharge Pressure (2021-2026) & (Units)
Table 63. World Green Hydrogen Compressor Production by Discharge Pressure (2027-2032) & (Units)
Table 64. World Green Hydrogen Compressor Production Value by Discharge Pressure (2021-2026) & (USD Million)
Table 65. World Green Hydrogen Compressor Production Value by Discharge Pressure (2027-2032) & (USD Million)
Table 66. World Green Hydrogen Compressor Average Price by Discharge Pressure (2021-2026) & (US$/Unit)
Table 67. World Green Hydrogen Compressor Average Price by Discharge Pressure (2027-2032) & (US$/Unit)
Table 68. World Green Hydrogen Compressor Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 69. World Green Hydrogen Compressor Production by Application (2021-2026) & (Units)
Table 70. World Green Hydrogen Compressor Production by Application (2027-2032) & (Units)
Table 71. World Green Hydrogen Compressor Production Value by Application (2021-2026) & (USD Million)
Table 72. World Green Hydrogen Compressor Production Value by Application (2027-2032) & (USD Million)
Table 73. World Green Hydrogen Compressor Average Price by Application (2021-2026) & (US$/Unit)
Table 74. World Green Hydrogen Compressor Average Price by Application (2027-2032) & (US$/Unit)
Table 75. Atlas Copco AB Basic Information, Manufacturing Base and Competitors
Table 76. Atlas Copco AB Major Business
Table 77. Atlas Copco AB Green Hydrogen Compressor Product and Services
Table 78. Atlas Copco AB Green Hydrogen Compressor Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 79. Atlas Copco AB Recent Developments/Updates
Table 80. Atlas Copco AB Competitive Strengths & Weaknesses
Table 81. Burckhardt Compression Holding AG Basic Information, Manufacturing Base and Competitors
Table 82. Burckhardt Compression Holding AG Major Business

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Table 83. Burckhardt Compression Holding AG Green Hydrogen Compressor Product and Services
Table 84. Burckhardt Compression Holding AG Green Hydrogen Compressor Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. Burckhardt Compression Holding AG Recent Developments/Updates
Table 86. Burckhardt Compression Holding AG Competitive Strengths & Weaknesses
Table 87. NEUMAN & ESSER Group Basic Information, Manufacturing Base and Competitors
Table 88. NEUMAN & ESSER Group Major Business
Table 89. NEUMAN & ESSER Group Green Hydrogen Compressor Product and Services
Table 90. NEUMAN & ESSER Group Green Hydrogen Compressor Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. NEUMAN & ESSER Group Recent Developments/Updates
Table 92. NEUMAN & ESSER Group Competitive Strengths & Weaknesses
Table 93. Baker Hughes Company Basic Information, Manufacturing Base and Competitors
Table 94. Baker Hughes Company Major Business
Table 95. Baker Hughes Company Green Hydrogen Compressor Product and Services
Table 96. Baker Hughes Company Green Hydrogen Compressor Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Baker Hughes Company Recent Developments/Updates
Table 98. Baker Hughes Company Competitive Strengths & Weaknesses
Table 99. PDC Machines Inc. Basic Information, Manufacturing Base and Competitors
Table 100. PDC Machines Inc. Major Business
Table 101. PDC Machines Inc. Green Hydrogen Compressor Product and Services
Table 102. PDC Machines Inc. Green Hydrogen Compressor Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. PDC Machines Inc. Recent Developments/Updates
Table 104. PDC Machines Inc. Competitive Strengths & Weaknesses
Table 105. Howden Group Basic Information, Manufacturing Base and Competitors
Table 106. Howden Group Major Business
Table 107. Howden Group Green Hydrogen Compressor Product and Services
Table 108. Howden Group Green Hydrogen Compressor Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share

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(2021-2026)
Table 109. Howden Group Recent Developments/Updates
Table 110. Howden Group Competitive Strengths & Weaknesses
Table 111. Mitsui E&S Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 112. Mitsui E&S Co., Ltd. Major Business
Table 113. Mitsui E&S Co., Ltd. Green Hydrogen Compressor Product and Services
Table 114. Mitsui E&S Co., Ltd. Green Hydrogen Compressor Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Mitsui E&S Co., Ltd. Recent Developments/Updates
Table 116. Mitsui E&S Co., Ltd. Competitive Strengths & Weaknesses
Table 117. Fluitron, Inc. Basic Information, Manufacturing Base and Competitors
Table 118. Fluitron, Inc. Major Business
Table 119. Fluitron, Inc. Green Hydrogen Compressor Product and Services
Table 120. Fluitron, Inc. Green Hydrogen Compressor Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. Fluitron, Inc. Recent Developments/Updates
Table 122. Fluitron, Inc. Competitive Strengths & Weaknesses
Table 123. HyET Hydrogen B.V. Basic Information, Manufacturing Base and Competitors
Table 124. HyET Hydrogen B.V. Major Business
Table 125. HyET Hydrogen B.V. Green Hydrogen Compressor Product and Services
Table 126. HyET Hydrogen B.V. Green Hydrogen Compressor Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. HyET Hydrogen B.V. Recent Developments/Updates
Table 128. HyET Hydrogen B.V. Competitive Strengths & Weaknesses
Table 129. CIMC Enric Holdings Limited Basic Information, Manufacturing Base and Competitors
Table 130. CIMC Enric Holdings Limited Major Business
Table 131. CIMC Enric Holdings Limited Green Hydrogen Compressor Product and Services
Table 132. CIMC Enric Holdings Limited Green Hydrogen Compressor Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. CIMC Enric Holdings Limited Recent Developments/Updates
Table 134. CIMC Enric Holdings Limited Competitive Strengths & Weaknesses

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Table 135. Sany Hydrogen Energy Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 136. Sany Hydrogen Energy Co., Ltd. Major Business
Table 137. Sany Hydrogen Energy Co., Ltd. Green Hydrogen Compressor Product and Services
Table 138. Sany Hydrogen Energy Co., Ltd. Green Hydrogen Compressor Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 139. Sany Hydrogen Energy Co., Ltd. Recent Developments/Updates
Table 140. Sany Hydrogen Energy Co., Ltd. Competitive Strengths & Weaknesses
Table 141. Qingdao Compress Energy Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 142. Qingdao Compress Energy Technology Co., Ltd. Major Business
Table 143. Qingdao Compress Energy Technology Co., Ltd. Green Hydrogen Compressor Product and Services
Table 144. Qingdao Compress Energy Technology Co., Ltd. Green Hydrogen Compressor Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 145. Qingdao Compress Energy Technology Co., Ltd. Recent Developments/Updates
Table 146. Qingdao Compress Energy Technology Co., Ltd. Competitive Strengths & Weaknesses
Table 147. Shenyang Blower Works Group Corporation Basic Information, Manufacturing Base and Competitors
Table 148. Shenyang Blower Works Group Corporation Major Business
Table 149. Shenyang Blower Works Group Corporation Green Hydrogen Compressor Product and Services
Table 150. Shenyang Blower Works Group Corporation Green Hydrogen Compressor Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 151. Shenyang Blower Works Group Corporation Recent Developments/Updates
Table 152. Shenyang Blower Works Group Corporation Competitive Strengths & Weaknesses
Table 153. Beijing Tianhai Industry Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 154. Beijing Tianhai Industry Co., Ltd. Major Business
Table 155. Beijing Tianhai Industry Co., Ltd. Green Hydrogen Compressor Product and Services
Table 156. Beijing Tianhai Industry Co., Ltd. Green Hydrogen Compressor Production

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(Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 157. Beijing Tianhai Industry Co., Ltd. Recent Developments/Updates
Table 158. Beijing Tianhai Industry Co., Ltd. Competitive Strengths & Weaknesses
Table 159. Xi'an Huyang Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 160. Xi'an Huyang Technology Co., Ltd. Major Business
Table 161. Xi'an Huyang Technology Co., Ltd. Green Hydrogen Compressor Product and Services
Table 162. Xi'an Huyang Technology Co., Ltd. Green Hydrogen Compressor Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 163. Xi'an Huyang Technology Co., Ltd. Recent Developments/Updates
Table 164. Xi'an Huyang Technology Co., Ltd. Competitive Strengths & Weaknesses
Table 165. Global Key Players of Green Hydrogen Compressor Upstream (Raw Materials)
Table 166. Global Green Hydrogen Compressor Typical Customers
Table 167. Green Hydrogen Compressor Typical Distributors

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List Of Figures

LIST OF FIGURES

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

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Figure 26. United States VS China: Green Hydrogen Compressor Production Value Market Share Comparison (2021 & 2025 & 2032)
Figure 27. United States VS China: Green Hydrogen Compressor Production Market Share Comparison (2021 & 2025 & 2032)
Figure 28. United States VS China: Green Hydrogen Compressor Consumption Market Share Comparison (2021 & 2025 & 2032)
Figure 29. United States Based Manufacturers Green Hydrogen Compressor Production Market Share 2025
Figure 30. China Based Manufacturers Green Hydrogen Compressor Production Market Share 2025
Figure 31. Rest of World Based Manufacturers Green Hydrogen Compressor Production Market Share 2025
Figure 32. World Green Hydrogen Compressor Production Value by Type, (USD Million), 2021 & 2025 & 2032
Figure 33. World Green Hydrogen Compressor Production Value Market Share by Type in 2025
Figure 34. Reciprocating Compressor
Figure 35. Diaphragm Compressor
Figure 36. Hydraulic Compressor
Figure 37. World Green Hydrogen Compressor Production Market Share by Type (2021-2032)
Figure 38. World Green Hydrogen Compressor Production Value Market Share by Type (2021-2032)
Figure 39. World Green Hydrogen Compressor Average Price by Type (2021-2032) & (US$/Unit)
Figure 40. World Green Hydrogen Compressor Production Value by Hydrogen Supply Stage, (USD Million), 2021 & 2025 & 2032
Figure 41. World Green Hydrogen Compressor Production Value Market Share by Hydrogen Supply Stage in 2025
Figure 42. Electrolyzer Outlet Compressor
Figure 43. Hydrogen Storage Compressor
Figure 44. Hydrogen Refueling Compressor
Figure 45. World Green Hydrogen Compressor Production Market Share by Hydrogen Supply Stage (2021-2032)
Figure 46. World Green Hydrogen Compressor Production Value Market Share by Hydrogen Supply Stage (2021-2032)
Figure 47. World Green Hydrogen Compressor Average Price by Hydrogen Supply Stage (2021-2032) & (US$/Unit)
Figure 48. World Green Hydrogen Compressor Production Value by Discharge

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Pressure, (USD Million), 2021 & 2025 & 2032
Figure 49. World Green Hydrogen Compressor Production Value Market Share by Discharge Pressure in 2025
Figure 50. Low Pressure Compressor (<30 MPa)
Figure 51. Medium Pressure Compressor (30–70 MPa)
Figure 52. High Pressure Compressor (>70 MPa)
Figure 53. World Green Hydrogen Compressor Production Market Share by Discharge Pressure (2021-2032)
Figure 54. World Green Hydrogen Compressor Production Value Market Share by Discharge Pressure (2021-2032)
Figure 55. World Green Hydrogen Compressor Average Price by Discharge Pressure (2021-2032) & (US$/Unit)
Figure 56. World Green Hydrogen Compressor Production Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 57. World Green Hydrogen Compressor Production Value Market Share by Application in 2025
Figure 58. Green Hydrogen Production Plants
Figure 59. Hydrogen Storage Facilities
Figure 60. Hydrogen Refueling Stations
Figure 61. Other
Figure 62. World Green Hydrogen Compressor Production Market Share by Application (2021-2032)
Figure 63. World Green Hydrogen Compressor Production Value Market Share by Application (2021-2032)
Figure 64. World Green Hydrogen Compressor Average Price by Application (2021-2032) & (US$/Unit)
Figure 65. Green Hydrogen Compressor Industry Chain
Figure 66. Green Hydrogen Compressor Procurement Model
Figure 67. Green Hydrogen Compressor Sales Model
Figure 68. Green Hydrogen Compressor Sales Channels, Direct Sales, and Distribution
Figure 69. Methodology
Figure 70. Research Process and Data Source

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