

Global Helium Expansion Turbine Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Helium Expansion Turbine market size was valued at US\$ 474 million in 2025 and is forecast to a readjusted size of US\$ 886 million by 2032 with a CAGR of 9.4% during review period.

In 2025, global Helium Expansion Turbine approximately 973 units, with an average global market price of around US\$ 473,115 per unit. Gross margin is about 48%. The cost is 246,020 usd. The Production is about 1500 units. Helium expansion turbines are turbine devices that utilize high-pressure helium gas expansion to generate mechanical energy or produce cryogenic cooling. They are widely applied in cryogenic refrigeration systems, superconducting magnet cooling, nuclear fusion facilities, industrial helium liquefaction, and hydrogen-related applications. By expanding high-pressure helium through precision-engineered turbine stages, these turbines achieve ultra-low temperatures, energy recovery, and stable operation, making them essential components in scientific research, industrial gas processing, and cryogenic energy systems.

In the future, helium expansion turbines are expected to evolve toward high precision, high reliability, intelligent control, and efficient energy recovery. The equipment will integrate automatic control, real-time monitoring, and data analytics systems to enable remote operation and optimized performance. With the growth of nuclear fusion, superconducting applications, hydrogen energy, and cryogenic energy systems, higher requirements are placed on turbine efficiency, reliability, and low-temperature performance, while modular, standardized, and compact designs will be promoted to reduce maintenance costs and enhance overall system performance.

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

Key Features:

Global Helium Expansion Turbine market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Helium Expansion Turbine market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Helium Expansion Turbine market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Helium Expansion Turbine market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

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

To assess the growth potential for Helium Expansion Turbine

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

To assess competitive factors affecting the marketplace

This report profiles key players in the global Helium Expansion Turbine market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Cryostar, Atlas Copco, GE(Baker

Hughes), Air Products, ACD, L.A. Turbine, Turbogaz, Samsung, R&D Dynamics, RMG, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

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

Market segment by Type

Single-shaft Helium Expansion Turbines

Double-shaft Helium Expansion Turbines

Market segment by Power

Low power: <100 kW

Medium power: 100–500 kW

High power: 500 kW–2 MW

Very high power: >2 MW

Market segment by Pressure

Low Pressure

Medium Pressure

High Pressure

Market segment by Application

Cryogenic Liquefaction & Gas Separation

Energy & Industrial Processing

Hydrogen Applications

Others

Major players covered

Cryostar

Atlas Copco

GE(Baker Hughes)

Air Products

ACD

L.A. Turbine

Turbogaz

Samsung

R&D Dynamics

RMG

HNEC

Beifang Asp

Hangyang Group

SASPG

Huayu

Suzhou Xida

Jiayang Ruite

Air Liquide

Hanwha

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

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

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

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

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

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

Chapter 1, to describe Helium Expansion Turbine product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Helium Expansion Turbine, with price, sales quantity, revenue, and global market share of Helium Expansion Turbine from 2021 to 2026.

Chapter 3, the Helium Expansion Turbine competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Helium Expansion Turbine breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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

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

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

Chapter 13, the key raw materials and key suppliers, and industry chain of Helium Expansion Turbine.

Chapter 14 and 15, to describe Helium Expansion Turbine sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Helium Expansion Turbine Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Single-shaft Helium Expansion Turbines

1.3.3 Double-shaft Helium Expansion Turbines

1.4 Market Analysis by Power

1.4.1 Overview: Global Helium Expansion Turbine Consumption Value by Power: 2021 Versus 2025 Versus 2032

1.4.2 Low power: <100 kW

1.4.3 Medium power: 100–500 kW

1.4.4 High power: 500 kW–2 MW

1.4.5 Very high power: >2 MW

1.5 Market Analysis by Pressure

1.5.1 Overview: Global Helium Expansion Turbine Consumption Value by Pressure: 2021 Versus 2025 Versus 2032

1.5.2 Low Pressure

1.5.3 Medium Pressure

1.5.4 High Pressure

1.6 Market Analysis by Application

1.6.1 Overview: Global Helium Expansion Turbine Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Cryogenic Liquefaction & Gas Separation

1.6.3 Energy & Industrial Processing

1.6.4 Hydrogen Applications

1.6.5 Others

1.7 Global Helium Expansion Turbine Market Size & Forecast

1.7.1 Global Helium Expansion Turbine Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Helium Expansion Turbine Sales Quantity (2021-2032)

1.7.3 Global Helium Expansion Turbine Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Cryostar

- 2.1.1 Cryostar Details
- 2.1.2 Cryostar Major Business
- 2.1.3 Cryostar Helium Expansion Turbine Product and Services
- 2.1.4 Cryostar Helium Expansion Turbine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 Cryostar Recent Developments/Updates
- 2.2 Atlas Copco
 - 2.2.1 Atlas Copco Details
 - 2.2.2 Atlas Copco Major Business
 - 2.2.3 Atlas Copco Helium Expansion Turbine Product and Services
 - 2.2.4 Atlas Copco Helium Expansion Turbine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.2.5 Atlas Copco Recent Developments/Updates
- 2.3 GE(Baker Hughes)
 - 2.3.1 GE(Baker Hughes) Details
 - 2.3.2 GE(Baker Hughes) Major Business
 - 2.3.3 GE(Baker Hughes) Helium Expansion Turbine Product and Services
 - 2.3.4 GE(Baker Hughes) Helium Expansion Turbine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.3.5 GE(Baker Hughes) Recent Developments/Updates
- 2.4 Air Products
 - 2.4.1 Air Products Details
 - 2.4.2 Air Products Major Business
 - 2.4.3 Air Products Helium Expansion Turbine Product and Services
 - 2.4.4 Air Products Helium Expansion Turbine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.4.5 Air Products Recent Developments/Updates
- 2.5 ACD
 - 2.5.1 ACD Details
 - 2.5.2 ACD Major Business
 - 2.5.3 ACD Helium Expansion Turbine Product and Services
 - 2.5.4 ACD Helium Expansion Turbine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 ACD Recent Developments/Updates
- 2.6 L.A. Turbine
 - 2.6.1 L.A. Turbine Details
 - 2.6.2 L.A. Turbine Major Business
 - 2.6.3 L.A. Turbine Helium Expansion Turbine Product and Services
 - 2.6.4 L.A. Turbine Helium Expansion Turbine Sales Quantity, Average Price, Revenue,

Gross Margin and Market Share (2021-2026)

2.6.5 L.A. Turbine Recent Developments/Updates

2.7 Turbogaz

2.7.1 Turbogaz Details

2.7.2 Turbogaz Major Business

2.7.3 Turbogaz Helium Expansion Turbine Product and Services

2.7.4 Turbogaz Helium Expansion Turbine Sales Quantity, Average Price, Revenue,

Gross Margin and Market Share (2021-2026)

2.7.5 Turbogaz Recent Developments/Updates

2.8 Samsung

2.8.1 Samsung Details

2.8.2 Samsung Major Business

2.8.3 Samsung Helium Expansion Turbine Product and Services

2.8.4 Samsung Helium Expansion Turbine Sales Quantity, Average Price, Revenue,

Gross Margin and Market Share (2021-2026)

2.8.5 Samsung Recent Developments/Updates

2.9 R&D Dynamics

2.9.1 R&D Dynamics Details

2.9.2 R&D Dynamics Major Business

2.9.3 R&D Dynamics Helium Expansion Turbine Product and Services

2.9.4 R&D Dynamics Helium Expansion Turbine Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 R&D Dynamics Recent Developments/Updates

2.10 RMG

2.10.1 RMG Details

2.10.2 RMG Major Business

2.10.3 RMG Helium Expansion Turbine Product and Services

2.10.4 RMG Helium Expansion Turbine Sales Quantity, Average Price, Revenue,

Gross Margin and Market Share (2021-2026)

2.10.5 RMG Recent Developments/Updates

2.11 HNEC

2.11.1 HNEC Details

2.11.2 HNEC Major Business

2.11.3 HNEC Helium Expansion Turbine Product and Services

2.11.4 HNEC Helium Expansion Turbine Sales Quantity, Average Price, Revenue,

Gross Margin and Market Share (2021-2026)

2.11.5 HNEC Recent Developments/Updates

2.12 Beifang Asp

2.12.1 Beifang Asp Details

- 2.12.2 Beifang Asp Major Business
- 2.12.3 Beifang Asp Helium Expansion Turbine Product and Services
- 2.12.4 Beifang Asp Helium Expansion Turbine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.12.5 Beifang Asp Recent Developments/Updates
- 2.13 Hangyang Group
 - 2.13.1 Hangyang Group Details
 - 2.13.2 Hangyang Group Major Business
 - 2.13.3 Hangyang Group Helium Expansion Turbine Product and Services
 - 2.13.4 Hangyang Group Helium Expansion Turbine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.13.5 Hangyang Group Recent Developments/Updates
- 2.14 SASPG
 - 2.14.1 SASPG Details
 - 2.14.2 SASPG Major Business
 - 2.14.3 SASPG Helium Expansion Turbine Product and Services
 - 2.14.4 SASPG Helium Expansion Turbine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.14.5 SASPG Recent Developments/Updates
- 2.15 Huayu
 - 2.15.1 Huayu Details
 - 2.15.2 Huayu Major Business
 - 2.15.3 Huayu Helium Expansion Turbine Product and Services
 - 2.15.4 Huayu Helium Expansion Turbine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.15.5 Huayu Recent Developments/Updates
- 2.16 Suzhou Xida
 - 2.16.1 Suzhou Xida Details
 - 2.16.2 Suzhou Xida Major Business
 - 2.16.3 Suzhou Xida Helium Expansion Turbine Product and Services
 - 2.16.4 Suzhou Xida Helium Expansion Turbine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.16.5 Suzhou Xida Recent Developments/Updates
- 2.17 Jianyang Ruite
 - 2.17.1 Jianyang Ruite Details
 - 2.17.2 Jianyang Ruite Major Business
 - 2.17.3 Jianyang Ruite Helium Expansion Turbine Product and Services
 - 2.17.4 Jianyang Ruite Helium Expansion Turbine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

- 2.17.5 Jianyang Ruite Recent Developments/Updates
- 2.18 Air Liquide
 - 2.18.1 Air Liquide Details
 - 2.18.2 Air Liquide Major Business
 - 2.18.3 Air Liquide Helium Expansion Turbine Product and Services
 - 2.18.4 Air Liquide Helium Expansion Turbine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.18.5 Air Liquide Recent Developments/Updates
- 2.19 Hanwha
 - 2.19.1 Hanwha Details
 - 2.19.2 Hanwha Major Business
 - 2.19.3 Hanwha Helium Expansion Turbine Product and Services
 - 2.19.4 Hanwha Helium Expansion Turbine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.19.5 Hanwha Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: HELIUM EXPANSION TURBINE BY MANUFACTURER

- 3.1 Global Helium Expansion Turbine Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Helium Expansion Turbine Revenue by Manufacturer (2021-2026)
- 3.3 Global Helium Expansion Turbine Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Helium Expansion Turbine by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 Helium Expansion Turbine Manufacturer Market Share in 2025
 - 3.4.3 Top 6 Helium Expansion Turbine Manufacturer Market Share in 2025
- 3.5 Helium Expansion Turbine Market: Overall Company Footprint Analysis
 - 3.5.1 Helium Expansion Turbine Market: Region Footprint
 - 3.5.2 Helium Expansion Turbine Market: Company Product Type Footprint
 - 3.5.3 Helium Expansion Turbine Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Helium Expansion Turbine Market Size by Region
 - 4.1.1 Global Helium Expansion Turbine Sales Quantity by Region (2021-2032)
 - 4.1.2 Global Helium Expansion Turbine Consumption Value by Region (2021-2032)

- 4.1.3 Global Helium Expansion Turbine Average Price by Region (2021-2032)
- 4.2 North America Helium Expansion Turbine Consumption Value (2021-2032)
- 4.3 Europe Helium Expansion Turbine Consumption Value (2021-2032)
- 4.4 Asia-Pacific Helium Expansion Turbine Consumption Value (2021-2032)
- 4.5 South America Helium Expansion Turbine Consumption Value (2021-2032)
- 4.6 Middle East & Africa Helium Expansion Turbine Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Helium Expansion Turbine Sales Quantity by Type (2021-2032)
- 5.2 Global Helium Expansion Turbine Consumption Value by Type (2021-2032)
- 5.3 Global Helium Expansion Turbine Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Helium Expansion Turbine Sales Quantity by Application (2021-2032)
- 6.2 Global Helium Expansion Turbine Consumption Value by Application (2021-2032)
- 6.3 Global Helium Expansion Turbine Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America Helium Expansion Turbine Sales Quantity by Type (2021-2032)
- 7.2 North America Helium Expansion Turbine Sales Quantity by Application (2021-2032)
- 7.3 North America Helium Expansion Turbine Market Size by Country
 - 7.3.1 North America Helium Expansion Turbine Sales Quantity by Country (2021-2032)
 - 7.3.2 North America Helium Expansion Turbine Consumption Value by Country (2021-2032)
 - 7.3.3 United States Market Size and Forecast (2021-2032)
 - 7.3.4 Canada Market Size and Forecast (2021-2032)
 - 7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

- 8.1 Europe Helium Expansion Turbine Sales Quantity by Type (2021-2032)
- 8.2 Europe Helium Expansion Turbine Sales Quantity by Application (2021-2032)
- 8.3 Europe Helium Expansion Turbine Market Size by Country
 - 8.3.1 Europe Helium Expansion Turbine Sales Quantity by Country (2021-2032)

- 8.3.2 Europe Helium Expansion Turbine Consumption Value by Country (2021-2032)
- 8.3.3 Germany Market Size and Forecast (2021-2032)
- 8.3.4 France Market Size and Forecast (2021-2032)
- 8.3.5 United Kingdom Market Size and Forecast (2021-2032)
- 8.3.6 Russia Market Size and Forecast (2021-2032)
- 8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Helium Expansion Turbine Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific Helium Expansion Turbine Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific Helium Expansion Turbine Market Size by Region
 - 9.3.1 Asia-Pacific Helium Expansion Turbine Sales Quantity by Region (2021-2032)
 - 9.3.2 Asia-Pacific Helium Expansion Turbine Consumption Value by Region (2021-2032)
 - 9.3.3 China Market Size and Forecast (2021-2032)
 - 9.3.4 Japan Market Size and Forecast (2021-2032)
 - 9.3.5 South Korea Market Size and Forecast (2021-2032)
 - 9.3.6 India Market Size and Forecast (2021-2032)
 - 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
 - 9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America Helium Expansion Turbine Sales Quantity by Type (2021-2032)
- 10.2 South America Helium Expansion Turbine Sales Quantity by Application (2021-2032)
- 10.3 South America Helium Expansion Turbine Market Size by Country
 - 10.3.1 South America Helium Expansion Turbine Sales Quantity by Country (2021-2032)
 - 10.3.2 South America Helium Expansion Turbine Consumption Value by Country (2021-2032)
 - 10.3.3 Brazil Market Size and Forecast (2021-2032)
 - 10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Helium Expansion Turbine Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Helium Expansion Turbine Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Helium Expansion Turbine Market Size by Country

11.3.1 Middle East & Africa Helium Expansion Turbine Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Helium Expansion Turbine Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Helium Expansion Turbine Market Drivers

12.2 Helium Expansion Turbine Market Restraints

12.3 Helium Expansion Turbine Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Helium Expansion Turbine and Key Manufacturers

13.2 Manufacturing Costs Percentage of Helium Expansion Turbine

13.3 Helium Expansion Turbine Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Helium Expansion Turbine Typical Distributors

14.3 Helium Expansion Turbine Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. Global Helium Expansion Turbine Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
- Table 2. Global Helium Expansion Turbine Consumption Value by Power, (USD Million), 2021 & 2025 & 2032
- Table 3. Global Helium Expansion Turbine Consumption Value by Pressure, (USD Million), 2021 & 2025 & 2032
- Table 4. Global Helium Expansion Turbine Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 5. Cryostar Basic Information, Manufacturing Base and Competitors
- Table 6. Cryostar Major Business
- Table 7. Cryostar Helium Expansion Turbine Product and Services
- Table 8. Cryostar Helium Expansion Turbine Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 9. Cryostar Recent Developments/Updates
- Table 10. Atlas Copco Basic Information, Manufacturing Base and Competitors
- Table 11. Atlas Copco Major Business
- Table 12. Atlas Copco Helium Expansion Turbine Product and Services
- Table 13. Atlas Copco Helium Expansion Turbine Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 14. Atlas Copco Recent Developments/Updates
- Table 15. GE(Baker Hughes) Basic Information, Manufacturing Base and Competitors
- Table 16. GE(Baker Hughes) Major Business
- Table 17. GE(Baker Hughes) Helium Expansion Turbine Product and Services
- Table 18. GE(Baker Hughes) Helium Expansion Turbine Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 19. GE(Baker Hughes) Recent Developments/Updates
- Table 20. Air Products Basic Information, Manufacturing Base and Competitors
- Table 21. Air Products Major Business
- Table 22. Air Products Helium Expansion Turbine Product and Services
- Table 23. Air Products Helium Expansion Turbine Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 24. Air Products Recent Developments/Updates
- Table 25. ACD Basic Information, Manufacturing Base and Competitors
- Table 26. ACD Major Business

- Table 27. ACD Helium Expansion Turbine Product and Services
- Table 28. ACD Helium Expansion Turbine Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 29. ACD Recent Developments/Updates
- Table 30. L.A. Turbine Basic Information, Manufacturing Base and Competitors
- Table 31. L.A. Turbine Major Business
- Table 32. L.A. Turbine Helium Expansion Turbine Product and Services
- Table 33. L.A. Turbine Helium Expansion Turbine Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 34. L.A. Turbine Recent Developments/Updates
- Table 35. Turbogaz Basic Information, Manufacturing Base and Competitors
- Table 36. Turbogaz Major Business
- Table 37. Turbogaz Helium Expansion Turbine Product and Services
- Table 38. Turbogaz Helium Expansion Turbine Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 39. Turbogaz Recent Developments/Updates
- Table 40. Samsung Basic Information, Manufacturing Base and Competitors
- Table 41. Samsung Major Business
- Table 42. Samsung Helium Expansion Turbine Product and Services
- Table 43. Samsung Helium Expansion Turbine Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 44. Samsung Recent Developments/Updates
- Table 45. R&D Dynamics Basic Information, Manufacturing Base and Competitors
- Table 46. R&D Dynamics Major Business
- Table 47. R&D Dynamics Helium Expansion Turbine Product and Services
- Table 48. R&D Dynamics Helium Expansion Turbine Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 49. R&D Dynamics Recent Developments/Updates
- Table 50. RMG Basic Information, Manufacturing Base and Competitors
- Table 51. RMG Major Business
- Table 52. RMG Helium Expansion Turbine Product and Services
- Table 53. RMG Helium Expansion Turbine Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 54. RMG Recent Developments/Updates
- Table 55. HNEC Basic Information, Manufacturing Base and Competitors
- Table 56. HNEC Major Business
- Table 57. HNEC Helium Expansion Turbine Product and Services
- Table 58. HNEC Helium Expansion Turbine Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

- Table 59. HNEC Recent Developments/Updates
- Table 60. Beifang Asp Basic Information, Manufacturing Base and Competitors
- Table 61. Beifang Asp Major Business
- Table 62. Beifang Asp Helium Expansion Turbine Product and Services
- Table 63. Beifang Asp Helium Expansion Turbine Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 64. Beifang Asp Recent Developments/Updates
- Table 65. Hangyang Group Basic Information, Manufacturing Base and Competitors
- Table 66. Hangyang Group Major Business
- Table 67. Hangyang Group Helium Expansion Turbine Product and Services
- Table 68. Hangyang Group Helium Expansion Turbine Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 69. Hangyang Group Recent Developments/Updates
- Table 70. SASPG Basic Information, Manufacturing Base and Competitors
- Table 71. SASPG Major Business
- Table 72. SASPG Helium Expansion Turbine Product and Services
- Table 73. SASPG Helium Expansion Turbine Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 74. SASPG Recent Developments/Updates
- Table 75. Huayu Basic Information, Manufacturing Base and Competitors
- Table 76. Huayu Major Business
- Table 77. Huayu Helium Expansion Turbine Product and Services
- Table 78. Huayu Helium Expansion Turbine Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 79. Huayu Recent Developments/Updates
- Table 80. Suzhou Xida Basic Information, Manufacturing Base and Competitors
- Table 81. Suzhou Xida Major Business
- Table 82. Suzhou Xida Helium Expansion Turbine Product and Services
- Table 83. Suzhou Xida Helium Expansion Turbine Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 84. Suzhou Xida Recent Developments/Updates
- Table 85. Jianyang Ruite Basic Information, Manufacturing Base and Competitors
- Table 86. Jianyang Ruite Major Business
- Table 87. Jianyang Ruite Helium Expansion Turbine Product and Services
- Table 88. Jianyang Ruite Helium Expansion Turbine Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 89. Jianyang Ruite Recent Developments/Updates
- Table 90. Air Liquide Basic Information, Manufacturing Base and Competitors
- Table 91. Air Liquide Major Business

- Table 92. Air Liquide Helium Expansion Turbine Product and Services
- Table 93. Air Liquide Helium Expansion Turbine Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 94. Air Liquide Recent Developments/Updates
- Table 95. Hanwha Basic Information, Manufacturing Base and Competitors
- Table 96. Hanwha Major Business
- Table 97. Hanwha Helium Expansion Turbine Product and Services
- Table 98. Hanwha Helium Expansion Turbine Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 99. Hanwha Recent Developments/Updates
- Table 100. Global Helium Expansion Turbine Sales Quantity by Manufacturer (2021-2026) & (Units)
- Table 101. Global Helium Expansion Turbine Revenue by Manufacturer (2021-2026) & (USD Million)
- Table 102. Global Helium Expansion Turbine Average Price by Manufacturer (2021-2026) & (US\$/Unit)
- Table 103. Market Position of Manufacturers in Helium Expansion Turbine, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
- Table 104. Head Office and Helium Expansion Turbine Production Site of Key Manufacturer
- Table 105. Helium Expansion Turbine Market: Company Product Type Footprint
- Table 106. Helium Expansion Turbine Market: Company Product Application Footprint
- Table 107. Helium Expansion Turbine New Market Entrants and Barriers to Market Entry
- Table 108. Helium Expansion Turbine Mergers, Acquisition, Agreements, and Collaborations
- Table 109. Global Helium Expansion Turbine Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
- Table 110. Global Helium Expansion Turbine Sales Quantity by Region (2021-2026) & (Units)
- Table 111. Global Helium Expansion Turbine Sales Quantity by Region (2027-2032) & (Units)
- Table 112. Global Helium Expansion Turbine Consumption Value by Region (2021-2026) & (USD Million)
- Table 113. Global Helium Expansion Turbine Consumption Value by Region (2027-2032) & (USD Million)
- Table 114. Global Helium Expansion Turbine Average Price by Region (2021-2026) & (US\$/Unit)
- Table 115. Global Helium Expansion Turbine Average Price by Region (2027-2032) &

(US\$/Unit)

Table 116. Global Helium Expansion Turbine Sales Quantity by Type (2021-2026) & (Units)

Table 117. Global Helium Expansion Turbine Sales Quantity by Type (2027-2032) & (Units)

Table 118. Global Helium Expansion Turbine Consumption Value by Type (2021-2026) & (USD Million)

Table 119. Global Helium Expansion Turbine Consumption Value by Type (2027-2032) & (USD Million)

Table 120. Global Helium Expansion Turbine Average Price by Type (2021-2026) & (US\$/Unit)

Table 121. Global Helium Expansion Turbine Average Price by Type (2027-2032) & (US\$/Unit)

Table 122. Global Helium Expansion Turbine Sales Quantity by Application (2021-2026) & (Units)

Table 123. Global Helium Expansion Turbine Sales Quantity by Application (2027-2032) & (Units)

Table 124. Global Helium Expansion Turbine Consumption Value by Application (2021-2026) & (USD Million)

Table 125. Global Helium Expansion Turbine Consumption Value by Application (2027-2032) & (USD Million)

Table 126. Global Helium Expansion Turbine Average Price by Application (2021-2026) & (US\$/Unit)

Table 127. Global Helium Expansion Turbine Average Price by Application (2027-2032) & (US\$/Unit)

Table 128. North America Helium Expansion Turbine Sales Quantity by Type (2021-2026) & (Units)

Table 129. North America Helium Expansion Turbine Sales Quantity by Type (2027-2032) & (Units)

Table 130. North America Helium Expansion Turbine Sales Quantity by Application (2021-2026) & (Units)

Table 131. North America Helium Expansion Turbine Sales Quantity by Application (2027-2032) & (Units)

Table 132. North America Helium Expansion Turbine Sales Quantity by Country (2021-2026) & (Units)

Table 133. North America Helium Expansion Turbine Sales Quantity by Country (2027-2032) & (Units)

Table 134. North America Helium Expansion Turbine Consumption Value by Country (2021-2026) & (USD Million)

Table 135. North America Helium Expansion Turbine Consumption Value by Country (2027-2032) & (USD Million)

Table 136. Europe Helium Expansion Turbine Sales Quantity by Type (2021-2026) & (Units)

Table 137. Europe Helium Expansion Turbine Sales Quantity by Type (2027-2032) & (Units)

Table 138. Europe Helium Expansion Turbine Sales Quantity by Application (2021-2026) & (Units)

Table 139. Europe Helium Expansion Turbine Sales Quantity by Application (2027-2032) & (Units)

Table 140. Europe Helium Expansion Turbine Sales Quantity by Country (2021-2026) & (Units)

Table 141. Europe Helium Expansion Turbine Sales Quantity by Country (2027-2032) & (Units)

Table 142. Europe Helium Expansion Turbine Consumption Value by Country (2021-2026) & (USD Million)

Table 143. Europe Helium Expansion Turbine Consumption Value by Country (2027-2032) & (USD Million)

Table 144. Asia-Pacific Helium Expansion Turbine Sales Quantity by Type (2021-2026) & (Units)

Table 145. Asia-Pacific Helium Expansion Turbine Sales Quantity by Type (2027-2032) & (Units)

Table 146. Asia-Pacific Helium Expansion Turbine Sales Quantity by Application (2021-2026) & (Units)

Table 147. Asia-Pacific Helium Expansion Turbine Sales Quantity by Application (2027-2032) & (Units)

Table 148. Asia-Pacific Helium Expansion Turbine Sales Quantity by Region (2021-2026) & (Units)

Table 149. Asia-Pacific Helium Expansion Turbine Sales Quantity by Region (2027-2032) & (Units)

Table 150. Asia-Pacific Helium Expansion Turbine Consumption Value by Region (2021-2026) & (USD Million)

Table 151. Asia-Pacific Helium Expansion Turbine Consumption Value by Region (2027-2032) & (USD Million)

Table 152. South America Helium Expansion Turbine Sales Quantity by Type (2021-2026) & (Units)

Table 153. South America Helium Expansion Turbine Sales Quantity by Type (2027-2032) & (Units)

Table 154. South America Helium Expansion Turbine Sales Quantity by Application

(2021-2026) & (Units)

Table 155. South America Helium Expansion Turbine Sales Quantity by Application

(2027-2032) & (Units)

Table 156. South America Helium Expansion Turbine Sales Quantity by Country

(2021-2026) & (Units)

Table 157. South America Helium Expansion Turbine Sales Quantity by Country

(2027-2032) & (Units)

Table 158. South America Helium Expansion Turbine Consumption Value by Country

(2021-2026) & (USD Million)

Table 159. South America Helium Expansion Turbine Consumption Value by Country

(2027-2032) & (USD Million)

Table 160. Middle East & Africa Helium Expansion Turbine Sales Quantity by Type

(2021-2026) & (Units)

Table 161. Middle East & Africa Helium Expansion Turbine Sales Quantity by Type

(2027-2032) & (Units)

Table 162. Middle East & Africa Helium Expansion Turbine Sales Quantity by

Application (2021-2026) & (Units)

Table 163. Middle East & Africa Helium Expansion Turbine Sales Quantity by

Application (2027-2032) & (Units)

Table 164. Middle East & Africa Helium Expansion Turbine Sales Quantity by Country

(2021-2026) & (Units)

Table 165. Middle East & Africa Helium Expansion Turbine Sales Quantity by Country

(2027-2032) & (Units)

Table 166. Middle East & Africa Helium Expansion Turbine Consumption Value by

Country (2021-2026) & (USD Million)

Table 167. Middle East & Africa Helium Expansion Turbine Consumption Value by

Country (2027-2032) & (USD Million)

Table 168. Helium Expansion Turbine Raw Material

Table 169. Key Manufacturers of Helium Expansion Turbine Raw Materials

Table 170. Helium Expansion Turbine Typical Distributors

Table 171. Helium Expansion Turbine Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Helium Expansion Turbine Picture
- Figure 2. Global Helium Expansion Turbine Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Helium Expansion Turbine Revenue Market Share by Type in 2025
- Figure 4. Single-shaft Helium Expansion Turbines Examples
- Figure 5. Double-shaft Helium Expansion Turbines Examples
- Figure 6. Global Helium Expansion Turbine Revenue by Power, (USD Million), 2021 & 2025 & 2032
- Figure 7. Global Helium Expansion Turbine Revenue Market Share by Power in 2025
- Figure 8. Low power: ?100 kW Examples
- Figure 9. Medium power: 100–500 kW Examples
- Figure 10. High power: 500 kW–2 MW Examples
- Figure 11. Very high power: >2 MW Examples
- Figure 12. Global Helium Expansion Turbine Revenue by Pressure, (USD Million), 2021 & 2025 & 2032
- Figure 13. Global Helium Expansion Turbine Revenue Market Share by Pressure in 2025
- Figure 14. Low Pressure Examples
- Figure 15. Medium Pressure Examples
- Figure 16. High Pressure Examples
- Figure 17. Global Helium Expansion Turbine Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 18. Global Helium Expansion Turbine Revenue Market Share by Application in 2025
- Figure 19. Cryogenic Liquefaction & Gas Separation Examples
- Figure 20. Energy & Industrial Processing Examples
- Figure 21. Hydrogen Applications Examples
- Figure 22. Others Examples
- Figure 23. Global Helium Expansion Turbine Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 24. Global Helium Expansion Turbine Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 25. Global Helium Expansion Turbine Sales Quantity (2021-2032) & (Units)
- Figure 26. Global Helium Expansion Turbine Price (2021-2032) & (US\$/Unit)
- Figure 27. Global Helium Expansion Turbine Sales Quantity Market Share by

Manufacturer in 2025

Figure 28. Global Helium Expansion Turbine Revenue Market Share by Manufacturer in 2025

Figure 29. Producer Shipments of Helium Expansion Turbine by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 30. Top 3 Helium Expansion Turbine Manufacturer (Revenue) Market Share in 2025

Figure 31. Top 6 Helium Expansion Turbine Manufacturer (Revenue) Market Share in 2025

Figure 32. Global Helium Expansion Turbine Sales Quantity Market Share by Region (2021-2032)

Figure 33. Global Helium Expansion Turbine Consumption Value Market Share by Region (2021-2032)

Figure 34. North America Helium Expansion Turbine Consumption Value (2021-2032) & (USD Million)

Figure 35. Europe Helium Expansion Turbine Consumption Value (2021-2032) & (USD Million)

Figure 36. Asia-Pacific Helium Expansion Turbine Consumption Value (2021-2032) & (USD Million)

Figure 37. South America Helium Expansion Turbine Consumption Value (2021-2032) & (USD Million)

Figure 38. Middle East & Africa Helium Expansion Turbine Consumption Value (2021-2032) & (USD Million)

Figure 39. Global Helium Expansion Turbine Sales Quantity Market Share by Type (2021-2032)

Figure 40. Global Helium Expansion Turbine Consumption Value Market Share by Type (2021-2032)

Figure 41. Global Helium Expansion Turbine Average Price by Type (2021-2032) & (US\$/Unit)

Figure 42. Global Helium Expansion Turbine Sales Quantity Market Share by Application (2021-2032)

Figure 43. Global Helium Expansion Turbine Revenue Market Share by Application (2021-2032)

Figure 44. Global Helium Expansion Turbine Average Price by Application (2021-2032) & (US\$/Unit)

Figure 45. North America Helium Expansion Turbine Sales Quantity Market Share by Type (2021-2032)

Figure 46. North America Helium Expansion Turbine Sales Quantity Market Share by Application (2021-2032)

Figure 47. North America Helium Expansion Turbine Sales Quantity Market Share by Country (2021-2032)

Figure 48. North America Helium Expansion Turbine Consumption Value Market Share by Country (2021-2032)

Figure 49. United States Helium Expansion Turbine Consumption Value (2021-2032) & (USD Million)

Figure 50. Canada Helium Expansion Turbine Consumption Value (2021-2032) & (USD Million)

Figure 51. Mexico Helium Expansion Turbine Consumption Value (2021-2032) & (USD Million)

Figure 52. Europe Helium Expansion Turbine Sales Quantity Market Share by Type (2021-2032)

Figure 53. Europe Helium Expansion Turbine Sales Quantity Market Share by Application (2021-2032)

Figure 54. Europe Helium Expansion Turbine Sales Quantity Market Share by Country (2021-2032)

Figure 55. Europe Helium Expansion Turbine Consumption Value Market Share by Country (2021-2032)

Figure 56. Germany Helium Expansion Turbine Consumption Value (2021-2032) & (USD Million)

Figure 57. France Helium Expansion Turbine Consumption Value (2021-2032) & (USD Million)

Figure 58. United Kingdom Helium Expansion Turbine Consumption Value (2021-2032) & (USD Million)

Figure 59. Russia Helium Expansion Turbine Consumption Value (2021-2032) & (USD Million)

Figure 60. Italy Helium Expansion Turbine Consumption Value (2021-2032) & (USD Million)

Figure 61. Asia-Pacific Helium Expansion Turbine Sales Quantity Market Share by Type (2021-2032)

Figure 62. Asia-Pacific Helium Expansion Turbine Sales Quantity Market Share by Application (2021-2032)

Figure 63. Asia-Pacific Helium Expansion Turbine Sales Quantity Market Share by Region (2021-2032)

Figure 64. Asia-Pacific Helium Expansion Turbine Consumption Value Market Share by Region (2021-2032)

Figure 65. China Helium Expansion Turbine Consumption Value (2021-2032) & (USD Million)

Figure 66. Japan Helium Expansion Turbine Consumption Value (2021-2032) & (USD Million)

Million)

Figure 67. South Korea Helium Expansion Turbine Consumption Value (2021-2032) & (USD Million)

Figure 68. India Helium Expansion Turbine Consumption Value (2021-2032) & (USD Million)

Figure 69. Southeast Asia Helium Expansion Turbine Consumption Value (2021-2032) & (USD Million)

Figure 70. Australia Helium Expansion Turbine Consumption Value (2021-2032) & (USD Million)

Figure 71. South America Helium Expansion Turbine Sales Quantity Market Share by Type (2021-2032)

Figure 72. South America Helium Expansion Turbine Sales Quantity Market Share by Application (2021-2032)

Figure 73. South America Helium Expansion Turbine Sales Quantity Market Share by Country (2021-2032)

Figure 74. South America Helium Expansion Turbine Consumption Value Market Share by Country (2021-2032)

Figure 75. Brazil Helium Expansion Turbine Consumption Value (2021-2032) & (USD Million)

Figure 76. Argentina Helium Expansion Turbine Consumption Value (2021-2032) & (USD Million)

Figure 77. Middle East & Africa Helium Expansion Turbine Sales Quantity Market Share by Type (2021-2032)

Figure 78. Middle East & Africa Helium Expansion Turbine Sales Quantity Market Share by Application (2021-2032)

Figure 79. Middle East & Africa Helium Expansion Turbine Sales Quantity Market Share by Country (2021-2032)

Figure 80. Middle East & Africa Helium Expansion Turbine Consumption Value Market Share by Country (2021-2032)

Figure 81. Turkey Helium Expansion Turbine Consumption Value (2021-2032) & (USD Million)

Figure 82. Egypt Helium Expansion Turbine Consumption Value (2021-2032) & (USD Million)

Figure 83. Saudi Arabia Helium Expansion Turbine Consumption Value (2021-2032) & (USD Million)

Figure 84. South Africa Helium Expansion Turbine Consumption Value (2021-2032) & (USD Million)

Figure 85. Helium Expansion Turbine Market Drivers

Figure 86. Helium Expansion Turbine Market Restraints

- Figure 87. Helium Expansion Turbine Market Trends
- Figure 88. Porters Five Forces Analysis
- Figure 89. Manufacturing Cost Structure Analysis of Helium Expansion Turbine in 2025
- Figure 90. Manufacturing Process Analysis of Helium Expansion Turbine
- Figure 91. Helium Expansion Turbine Industrial Chain
- Figure 92. Sales Channel: Direct to End-User vs Distributors
- Figure 93. Direct Channel Pros & Cons
- Figure 94. Indirect Channel Pros & Cons
- Figure 95. Methodology
- Figure 96. Research Process and Data Source

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