

# Global Helium Cryogenic Expander 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 Cryogenic Expander market size was valued at US\$ 474 million in 2025 and is forecast to a readjusted size of US\$ 843 million by 2032 with a CAGR of 8.1% during review period.

In 2025, global Helium Cryogenic Expander 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. A Helium Cryogenic Expander is a turbine device that uses high-pressure helium gas expansion to produce cryogenic cooling or mechanical power. It is widely used in liquid helium refrigeration systems, superconducting magnet cooling, nuclear fusion facilities, and industrial helium liquefaction. By expanding high-pressure helium through precision-engineered turbine stages, it achieves ultra-low temperatures, energy recovery, and stable operation, making it a critical component in scientific research and industrial cryogenic systems.

In the future, helium cryogenic expanders are expected to evolve toward high precision, high reliability, intelligent control, modular design, and efficient energy recovery. Systems will integrate automatic control, real-time monitoring, and data analytics to enable remote operation and optimized performance. With the growth of nuclear fusion, superconducting applications, hydrogen energy, and cryogenic energy systems, higher demands are placed on efficiency, reliability, and low-temperature performance, while promoting standardization, compact design, and low-maintenance solutions to enhance overall system performance and economic viability.

This report is a detailed and comprehensive analysis for global Helium Cryogenic Expander 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 Cryogenic Expander market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Helium Cryogenic Expander 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 Cryogenic Expander 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 Cryogenic Expander 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 Cryogenic Expander
- 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 Cryogenic Expander 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 Cryogenic Expander 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

Radial Type

Axial Type

Radial-Axial Type

### Market segment by Parameter

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 Cryogenic Expander product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Helium Cryogenic Expander 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 Cryogenic Expander 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 Cryogenic Expander.

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

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