

Global Helium Cryogenic Expander Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GC7C0078AB63EN.html>

Date: June 2026

Pages: 139

Price: US\$ 4,480.00 (Single User License)

ID: GC7C0078AB63EN

Abstracts

The global Helium Cryogenic Expander market size is expected to reach \$ 843 million by 2032, rising at a market growth of 8.1% CAGR during the forecast period (2026-2032).

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 studies the global Helium Cryogenic Expander production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Helium Cryogenic Expander total production and demand, 2021-2032, (Units)

Global Helium Cryogenic Expander total production value, 2021-2032, (USD Million)

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

Global Helium Cryogenic Expander consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Helium Cryogenic Expander domestic production, consumption, key domestic manufacturers and share

Global Helium Cryogenic Expander production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Helium Cryogenic Expander production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Helium Cryogenic Expander production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Helium Cryogenic Expander 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Helium Cryogenic Expander 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 Helium Cryogenic Expander Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Helium Cryogenic Expander Market, Segmentation by Type:

Radial Type

Axial Type

Radial-Axial Type

Global Helium Cryogenic Expander Market, Segmentation by Parameter:

Low power: $\leq 100\text{ kW}$

Medium power: 100–500 kW

High power: 500 kW–2 MW

Very high power: >2 MW

Global Helium Cryogenic Expander Market, Segmentation by Pressure:

Low Pressure

Medium Pressure

High Pressure

Global Helium Cryogenic Expander Market, Segmentation by Application:

Cryogenic Liquefaction & Gas Separation

Energy & Industrial Processing

Hydrogen Applications

Others

Companies Profiled:

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

Jianyang Ruite

Air Liquide

Hanwha

Key Questions Answered:

1. How big is the global Helium Cryogenic Expander market?
2. What is the demand of the global Helium Cryogenic Expander market?
3. What is the year over year growth of the global Helium Cryogenic Expander market?
4. What is the production and production value of the global Helium Cryogenic Expander market?
5. Who are the key producers in the global Helium Cryogenic Expander market?
6. What are the growth factors driving the market demand?

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