

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

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## Abstracts

The global Helium Cryogenic Turbine Expander market size is expected to reach \$ 859 million by 2032, rising at a market growth of 8.3% CAGR during the forecast period (2026-2032).

In 2025, global Helium Cryogenic Turbine 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 Turbine Expander is a turbine device that utilizes high-pressure helium gas expansion to produce cryogenic cooling or mechanical energy output. It is widely applied in liquid helium refrigeration systems, superconducting magnet cooling, nuclear fusion devices, industrial helium liquefaction, and hydrogen-related cryogenic applications. 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.

The future of helium cryogenic turbine expanders will trend toward high precision, high reliability, intelligent control, modularity, and high energy efficiency. Systems will integrate automatic control, real-time monitoring, data analytics, and remote operation to optimize performance and ensure stable operation. With the advancement of nuclear fusion research, superconducting applications, hydrogen energy, and cryogenic energy systems, higher demands will be placed on the efficiency, low-temperature performance, and reliability of the expanders, while promoting standardized, compact, and low-maintenance designs, enhancing overall system performance and economic viability.

This report studies the global Helium Cryogenic Turbine Expander production, demand,

key manufacturers, and key regions.

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Helium Cryogenic Turbine 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 Turbine 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 Turbine Expander Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Helium Cryogenic Turbine Expander Market, Segmentation by Type:

Radial Type

Axial Type

Radial-Axial Type

### Global Helium Cryogenic Turbine Expander Market, Segmentation by Parameter:

Low power: >100 kW

Medium power: 100–500 kW

High power: 500 kW–2 MW

Very high power: >2 MW

### Global Helium Cryogenic Turbine 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

Jiayang Ruite

Air Liquide

Hanwha

#### Key Questions Answered:

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

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