

Global Helium Expansion Turbine Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Helium Expansion Turbine market size is expected to reach \$ 886 million by 2032, rising at a market growth of 9.4% CAGR during the forecast period (2026-2032).

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 studies the global Helium Expansion Turbine production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Helium Expansion Turbine Market, Segmentation by Type:

Single-shaft Helium Expansion Turbines

Double-shaft Helium Expansion Turbines

Global Helium Expansion Turbine Market, Segmentation by Power:

Low power: <100 kW

Medium power: 100–500 kW

High power: 500 kW–2 MW

Very high power: >2 MW

Global Helium Expansion Turbine Market, Segmentation by Pressure:

Low Pressure

Medium Pressure

High Pressure

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

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