

Global Helium Expansion Turbine Market Growth 2026-2032

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Abstracts

The global Helium Expansion Turbine market size is predicted to grow from US\$ 450 million in 2025 to US\$ 870 million in 2032; it is expected to grow at a CAGR of 10.0% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the ?Helium Expansion Turbine

Industry Forecast? looks at past sales and reviews total world Helium Expansion Turbine sales in 2025, providing a comprehensive analysis by region and market sector of projected Helium Expansion Turbine sales for 2026 through 2032. With Helium Expansion Turbine sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Helium Expansion Turbine industry.

This Insight Report provides a comprehensive analysis of the global Helium Expansion Turbine landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Helium Expansion Turbine portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Helium Expansion Turbine market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Helium Expansion Turbine and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Helium Expansion Turbine.

This report presents a comprehensive overview, market shares, and growth opportunities of Helium Expansion Turbine market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Single-shaft Helium Expansion Turbines

Double-shaft Helium Expansion Turbines

Segmentation by Power:

Low power: ?100 kW

Medium power: 100?500 kW

High power: 500 kW?2 MW

Very high power: >2 MW

Segmentation by Pressure:

Low Pressure

Medium Pressure

High Pressure

Segmentation by Application:

Cryogenic Liquefaction & Gas Separation

Energy & Industrial Processing

Hydrogen Applications

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its

market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Helium Expansion Turbine market?

What factors are driving Helium Expansion Turbine market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Helium Expansion Turbine market opportunities vary by end market size?

How does Helium Expansion Turbine break out by Type, by Application?

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