

Global Helium Turbo Expander Market Growth 2026-2032

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Abstracts

The global Helium Turbo Expander market size is predicted to grow from US\$ 118 million in 2025 to US\$ 176 million in 2032; it is expected to grow at a CAGR of 6.0% from 2026 to 2032.

A helium turbo expander is a specialized cryogenic expansion turbine designed to efficiently expand and cool helium gas to extremely low temperatures, enabling its liquefaction or re-condensation. It converts the pressure energy of helium into mechanical work, significantly reducing gas temperature during expansion. These expanders are essential components in helium liquefaction and re-liquefaction systems, cryogenic refrigeration, and superconducting applications such as MRI systems, particle accelerators, and quantum computing. Helium turbo expanders are engineered for ultra-low leakage, high rotational speed, and long operational life, providing high efficiency and stable performance in demanding cryogenic and scientific environments.

In 2024, global sales reached approximately 0.19 k units, with an average global market price of around K US\$ 620 per unit.

The helium turbo expander market is poised for continued growth, driven by rising demand for helium-based cryogenic systems in healthcare, quantum technology, and scientific research. Increasing investment in helium recovery and recycling will further expand market opportunities. Technological advancements in cryogenic engineering and energy-efficient expander design are improving reliability and reducing operational costs. While challenges such as helium supply volatility and high equipment costs persist, expanding global research infrastructure and cryogenic applications ensure sustained demand. Overall, helium turbo expanders will remain critical for advancing low-temperature technologies, supporting innovation in science, medicine, and

sustainable helium utilization worldwide.

Market Trend

The helium turbo expander market is growing steadily due to increasing global demand for liquid helium in healthcare, semiconductor, and research sectors. The expansion of superconducting technologies, such as MRI, fusion energy, and quantum computing, is driving market growth. Additionally, rising interest in helium recovery and recycling systems is creating new opportunities for compact, efficient turbo expanders. Technological advancements in bearing systems, cryogenic materials, and digital control are enhancing efficiency and reliability. Asia-Pacific and North America dominate due to strong research infrastructure and helium liquefaction capacity, while Europe focuses on cryogenic innovations and sustainable helium management systems.

Market Drive

Key drivers include the rising demand for liquid helium in medical imaging, semiconductor manufacturing, and scientific research. The growing use of superconducting magnets in MRI systems and particle accelerators continues to support helium liquefaction projects. Expanding cryogenic applications in aerospace, defense, and quantum computing also propel demand. Moreover, the scarcity and high cost of helium are pushing industries to adopt efficient liquefaction and recovery technologies. Technological improvements in magnetic and gas-bearing systems reduce maintenance costs and enhance operational stability. Government and private investments in helium conservation and cryogenic infrastructure further strengthen the market outlook for helium turbo expanders.

Upstream and Downstream

Upstream, helium turbo expanders rely on precision-engineered materials such as stainless steel, aluminum alloys, titanium, and low-friction bearings. Key components include impellers, rotors, shaft seals, and cryogenic housings. The manufacturing process demands high-precision machining, dynamic balancing, and advanced computational fluid dynamics (CFD) modeling. Major upstream suppliers provide alloys, precision parts, and cryogenic insulation materials. Downstream, helium turbo expanders are utilized in helium liquefaction plants, cryogenic cooling systems, and research laboratories. End users include healthcare, research institutions, aerospace, and semiconductor industries requiring ultra-low temperature environments.

LP Information, Inc. (LPI) ' newest research report, the "Helium Turbo Expander Industry Forecast" looks at past sales and reviews total world Helium Turbo Expander sales in 2025, providing a comprehensive analysis by region and market sector of projected Helium Turbo Expander sales for 2026 through 2032. With Helium Turbo Expander sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Helium Turbo Expander industry.

This Insight Report provides a comprehensive analysis of the global Helium Turbo Expander 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 Turbo Expander portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Helium Turbo Expander market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Helium Turbo Expander 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 Turbo Expander.

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

Segmentation by Type:

Radial-Axial Turbo Expander

Radial Turbo Expander

Axial Turbo Expander

Segmentation by Application:

Air Separation

Liquefied Natural Gas(LNG)

Petrochemical Processing

Waste Heat or Other Power Recovery

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

RMG

Hangyang Group

SASPG

HNEC

Suzhou Xida

Beifang Asp

Jianyang Ruite

Huayu

Air Liquide

Hanwha

Key Questions Addressed in this Report

What is the 10-year outlook for the global Helium Turbo Expander market?

What factors are driving Helium Turbo Expander market growth, globally and by region?

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

How do Helium Turbo Expander market opportunities vary by end market size?

How does Helium Turbo Expander break out by Type, by Application?

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