

Cryogenic Pumps Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

The Global Cryogenic Pumps Market reached USD 2.3 billion in 2024 and is projected to grow at a CAGR of 5.5% between 2025 and 2034. This growth is driven by increasing foreign direct investments in emerging economies and the expansion of industrial infrastructure. Rising applications for cryogenics, including hydrogen, LNG, and oxygen, in storage and transportation further fuel the demand for cryogenic pumps. Innovations in sustainable technologies and improved handling techniques are creating new avenues for business growth in the industry.

Centrifugal cryogenic pumps are expected to generate USD 2 billion by 2034, supported by their widespread adoption in industrial processes involving cryogenics like nitrogen and argon. The growing utilization of LNG across sectors such as healthcare, food and beverages, and chemicals is contributing significantly to the market's expansion. Technological advancements, including superconducting magnetic bearings for higher efficiency and composite materials designed to withstand extreme temperatures and pressures, are enhancing the capabilities of centrifugal pumps, bolstering their market presence.

The oxygen cryogenic pumps segment is poised for strong growth, with a projected CAGR of 5.5% through 2034. This demand is driven by increasing healthcare needs, particularly in urban centers, as population growth and rising health concerns spur the use of cryogenic equipment for liquid oxygen. Government initiatives aimed at improving medical infrastructure and funding reliable cryogenic systems are expected to support market expansion further.

U.S. cryogenic pumps market is forecasted to generate USD 600 million through 2034.

This growth is fueled by expanding LNG applications across various industries and increasing assets in energy infrastructure, such as LNG terminals and storage services. Additionally, the healthcare sector heavily relies on cryogenic pumps for critical applications involving liquid oxygen and nitrogen. The aerospace and space exploration industries also contribute to market growth, with a rising focus on cryogenic propulsion systems and related technologies.

With advancements in technology, increasing adoption across diverse applications, and strong government support for industrial and healthcare developments, the cryogenic pumps market is set to achieve steady growth over the coming decade.

Contents

CHAPTER 1 METHODOLOGY & SCOPE

- 1.1 Market scope & definitions
- 1.2 Market estimates & forecast parameters
- 1.3 Forecast calculation
- 1.4 Data sources
 - 1.4.1 Primary
 - 1.4.2 Secondary
 - 1.4.2.1 Paid
 - 1.4.2.2 Public

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry synopsis, 2021 - 2034

CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem analysis
- 3.2 Regulatory landscape
- 3.3 Industry impact forces
 - 3.3.1 Growth drivers
 - 3.3.2 Industry pitfalls & challenges
- 3.4 Growth potential analysis
- 3.5 Porter's analysis
 - 3.5.1 Bargaining power of suppliers
 - 3.5.2 Bargaining power of buyers
 - 3.5.3 Threat of new entrants
 - 3.5.4 Threat of substitutes
- 3.6 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2024

- 4.1 Introduction
- 4.2 Strategic outlook
- 4.3 Innovation & sustainability landscape

CHAPTER 5 MARKET SIZE AND FORECAST, BY PRODUCT, 2021 – 2034 (USD)

MILLION)

- 5.1 Key trends
- 5.2 Centrifugal
- 5.3 Reciprocating
- 5.4 Submerged

**CHAPTER 6 MARKET SIZE AND FORECAST, BY CRYOGENS TYPE, 2021 – 2034
(USD MILLION)**

- 6.1 Key trends
- 6.2 Nitrogen
- 6.3 Oxygen
- 6.4 Natural gas
- 6.5 Argon
- 6.6 Other cryogenics

**CHAPTER 7 MARKET SIZE AND FORECAST, BY END USE, 2021 – 2034 (USD
MILLION)**

- 7.1 Key trends
- 7.2 O&G industry
- 7.3 Power
- 7.4 Food & beverage
- 7.5 Chemical
- 7.6 Rubber & plastics
- 7.7 Metallurgy
- 7.8 Healthcare
- 7.9 Shipping
- 7.10 Agriculture, forestry & fishing
- 7.11 Other industries

**CHAPTER 8 MARKET SIZE AND FORECAST, BY REGION, 2021 – 2034 (USD
MILLION)**

- 8.1 Key trends
- 8.2 North America
 - 8.2.1 U.S.
 - 8.2.2 Canada

8.3 Europe

8.3.1 UK

8.3.2 Germany

8.3.3 Italy

8.3.4 France

8.3.5 Spain

8.3.6 Russia

8.4 Asia Pacific

8.4.1 China

8.4.2 Japan

8.4.3 South Korea

8.4.4 India

8.4.5 Australia

8.5 Middle East & Africa

8.5.1 Saudi Arabia

8.5.2 UAE

8.5.3 Turkey

8.5.4 South Africa

8.5.5 Egypt

8.6 Latin America

8.6.1 Brazil

8.6.2 Argentina

CHAPTER 9 COMPANY PROFILES

9.1 Cryomec LLC

9.2 Cryostar

9.3 Ebara Corporation

9.4 Fives

9.5 Flowserve Corporation

9.6 Huzhou Baihui Cryogenic Equipment Co., Ltd

9.7 Indian Compressors Ltd

9.8 Nikkiso Co., Ltd.

9.9 PACKO Industry

9.10 SHI Cryogenics Group

9.11 SMS Pumps & Engineers

9.12 Sumitomo Heavy Industries Ltd

9.13 The Weir Group PLC

9.14 Trillium Flow Technologies

9.15 Vanzetti Engineering

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