

Global GM-JT Cryocooler Market Growth 2026-2032

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Abstracts

The global GM-JT Cryocooler market size is predicted to grow from US\$ 46.96 million in 2025 to US\$ 80.49 million in 2032; it is expected to grow at a CAGR of 8.3% from 2026 to 2032.

A GM-JT Cryocooler (Gifford-McMahon/Joule-Thomson Cryocooler) is a cryogenic refrigeration system that combines Gifford-McMahon (GM) precooling technology with Joule-Thomson (JT) expansion cooling. The GM cold head precools high-pressure helium gas to approximately 10 K, after which the JT expansion stage further cools the gas to around 4 K or below. Compared with conventional GM cryocoolers, GM-JT systems offer superior temperature stability, lower vibration, and continuous operation in the liquid-helium temperature range, making them suitable for quantum computing, superconducting magnets, photon detectors, aerospace systems, and scientific research applications. Global sales of GM-JT refrigerators are projected to reach approximately 310 units by 2025. Because these products are primarily targeted at research institutions, quantum computing companies, superconducting equipment manufacturers, and national laboratories, their unit price is significantly higher than that of ordinary GM refrigerators, averaging approximately US\$155,000. The industry average gross profit margin is approximately 40%-55%. The GM-JT Cryocooler industry chain consists of upstream core materials and key components, midstream complete machine manufacturing, and downstream application markets. Upstream mainly includes high-purity helium, rare-earth cryogenic materials, precision stainless steel piping, cryogenic valves, high-pressure compressors, motor drive systems, and temperature controllers. Among these, cryogenic materials and compressors are critical components affecting system performance and lifespan. Midstream mainly comprises GM cold head manufacturers, JT module manufacturers, and system integrators. These companies design heat exchangers, JT expansion valves, and control systems to achieve operation in cryogenic ranges of 4K and even lower. Downstream applications cover quantum computers, superconducting magnetic resonance imaging (MRI/NMR)

equipment, superconducting magnets, cryogenic detectors, semiconductor testing equipment, space payloads, and defense electronic systems.

United States market for GM-JT Cryocooler is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for GM-JT Cryocooler is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for GM-JT Cryocooler is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key GM-JT Cryocooler players cover Sumitomo Heavy Industries, Bluefors?Cryomech), Air Liquide Advanced Technologies, CSIC Pengli Cryogenics, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for GM-JT Cryocooler 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 GM-JT Cryocooler.

This report presents a comprehensive overview, market shares, and growth opportunities of GM-JT Cryocooler market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Single-stage GM-JT Cryocooler

Two-stage GM-JT Cryocooler

Segmentation by Cooling Capacity:

Below 1 W

1-5 W

5-10 W

Above 10 W

Segmentation by Working Fluid:

Helium Type

Helium-Neon Mixed Type

Others

Segmentation by Application:

Quantum Computing

Superconducting Devices

Medical Devices

Aerospace

Defense Electronics

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.

Sumitomo Heavy Industries

Bluefors?Cryomech)

Air Liquide Advanced Technologies

CSIC Pengli Cryogenics

Key Questions Addressed in this Report

What is the 10-year outlook for the global GM-JT Cryocooler market?

What factors are driving GM-JT Cryocooler market growth, globally and by region?

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

How do GM-JT Cryocooler market opportunities vary by end market size?

How does GM-JT Cryocooler break out by Type, by Application?

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