

Global GM-type Pulse Tube Cryocooler (GM-PTC) Market Growth 2026-2032

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Abstracts

The global GM-type Pulse Tube Cryocooler (GM-PTC) market size is predicted to grow from US\$ 164 million in 2025 to US\$ 292 million in 2032; it is expected to grow at a CAGR of 8.8% from 2026 to 2032.

A GM-type pulse tube cryocooler (GM-PTC) is a closed-cycle cryogenic refrigeration system that utilizes a Gifford-McMahon (GM) compressor to generate periodic high- and low-pressure gas flow. Cooling is achieved through the interaction of a pulse tube, regenerator, and phase-shifting mechanism without any moving components in the cold head. Compared with conventional GM cryocoolers, GM-type pulse tube cryocoolers offer lower vibration, higher reliability, reduced maintenance requirements, and longer operational life. These systems can provide cooling at temperatures ranging from 80 K to below 4 K and are widely used in infrared detectors, superconducting devices, quantum computing systems, semiconductor inspection equipment, aerospace payloads, and scientific research instruments. Global sales of GM-type pulse tube cryocoolers are projected to reach approximately 4,900 units by 2025, with an average selling price of approximately US\$35,000 per unit. The industry average gross profit margin remains between 35% and 55%. The GM-type pulse tube cryocooler industry chain mainly consists of upstream core material and component suppliers, midstream complete machine manufacturers, and downstream application terminals. The upstream segment mainly includes high-purity helium suppliers, rare earth cold storage material manufacturers, high-precision stainless steel pipeline suppliers, valve and seal manufacturers, compressor manufacturers, and electronic control system suppliers. Among these, the performance of the cold storage material and the efficiency of the compressor directly affect the performance of the cryocooler, making them one of the segments with the highest technological barriers in the industry chain. The midstream mainly consists of GM-type pulse tube cryocooler design and manufacturing companies,

responsible for cold head structure design, phase control system development, heat exchanger manufacturing, and system integration. Since there are no moving mechanical parts inside the pulse tube cold head, manufacturing precision and thermodynamic optimization capabilities are the core competitiveness of these companies. Downstream applications cover infrared imaging systems, superconducting magnets, quantum computers, single-photon detectors, semiconductor testing equipment, space remote sensing satellites, medical imaging equipment, and defense electronic systems.

United States market for GM-type Pulse Tube Cryocooler (GM-PTC) 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-type Pulse Tube Cryocooler (GM-PTC) 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-type Pulse Tube Cryocooler (GM-PTC) 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-type Pulse Tube Cryocooler (GM-PTC) players cover Sumitomo Heavy Industries, Bluefors?Cryomech), CSSC Pride (Nanjing) Cryogenic Technology, Hynhe Technology, 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-type Pulse Tube Cryocooler (GM-PTC) Industry Forecast? looks at past sales and reviews total world GM-type Pulse Tube Cryocooler (GM-PTC) sales in 2025, providing a comprehensive analysis by region and market sector of projected GM-type Pulse Tube Cryocooler (GM-PTC) sales for 2026 through 2032. With GM-type Pulse Tube Cryocooler (GM-PTC) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world GM-type Pulse Tube Cryocooler (GM-PTC) industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for GM-type Pulse Tube Cryocooler (GM-PTC) 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-type Pulse Tube Cryocooler (GM-PTC).

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

Segmentation by Type:

Single-stage Type

Two-stage Type

Multi-stage Type

Segmentation by Temperature Zone:

80K

40K

20K

4K

Segmentation by Cooling Capacity:

Low Cooling Capacity

Medium Cooling Capacity

High Cooling Capacity

Segmentation by Application:

Quantum Computing

Superconducting Devices

Aerospace

Medical Equipment

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)

CSSC Pride (Nanjing) Cryogenic Technology

Hynhe Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global GM-type Pulse Tube Cryocooler (GM-PTC) market?

What factors are driving GM-type Pulse Tube Cryocooler (GM-PTC) market growth, globally and by region?

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

How do GM-type Pulse Tube Cryocooler (GM-PTC) market opportunities vary by end market size?

How does GM-type Pulse Tube Cryocooler (GM-PTC) break out by Type, by Application?

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