

Global GM-type Pulse Tube Cryocooler (GM-PTC) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global GM-type Pulse Tube Cryocooler (GM-PTC) market size is expected to reach \$ 299 million by 2032, rising at a market growth of 8.3% CAGR during the forecast period (2026-2032).

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.

This report studies the global GM-type Pulse Tube Cryocooler (GM-PTC) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for GM-type Pulse Tube Cryocooler (GM-PTC) and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of GM-type Pulse Tube Cryocooler (GM-PTC) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global GM-type Pulse Tube Cryocooler (GM-PTC) total production and demand, 2021-2032, (Units)

Global GM-type Pulse Tube Cryocooler (GM-PTC) total production value, 2021-2032, (USD Million)

Global GM-type Pulse Tube Cryocooler (GM-PTC) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global GM-type Pulse Tube Cryocooler (GM-PTC) consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: GM-type Pulse Tube Cryocooler (GM-PTC) domestic production, consumption, key domestic manufacturers and share

Global GM-type Pulse Tube Cryocooler (GM-PTC) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global GM-type Pulse Tube Cryocooler (GM-PTC) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global GM-type Pulse Tube Cryocooler (GM-PTC) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global GM-type Pulse Tube Cryocooler (GM-PTC)

market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Sumitomo Heavy Industries, Bluefors?Cryomech), CSSC Pride (Nanjing) Cryogenic Technology, Hynhe Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World GM-type Pulse Tube Cryocooler (GM-PTC) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global GM-type Pulse Tube Cryocooler (GM-PTC) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global GM-type Pulse Tube Cryocooler (GM-PTC) Market, Segmentation by Type:

Single-stage Type

Two-stage Type

Multi-stage Type

Global GM-type Pulse Tube Cryocooler (GM-PTC) Market, Segmentation by Temperature Zone:

80K

40K

20K

4K

Global GM-type Pulse Tube Cryocooler (GM-PTC) Market, Segmentation by Cooling Capacity:

Low Cooling Capacity

Medium Cooling Capacity

High Cooling Capacity

Global GM-type Pulse Tube Cryocooler (GM-PTC) Market, Segmentation by Application:

Quantum Computing

Superconducting Devices

Aerospace

Medical Equipment

Defense Electronics

Others

Companies Profiled:

Sumitomo Heavy Industries

Bluefors?Cryomech)

CSSC Pride (Nanjing) Cryogenic Technology

Hynhe Technology

Key Questions Answered:

1. How big is the global GM-type Pulse Tube Cryocooler (GM-PTC) market?
2. What is the demand of the global GM-type Pulse Tube Cryocooler (GM-PTC) market?
3. What is the year over year growth of the global GM-type Pulse Tube Cryocooler (GM-PTC) market?
4. What is the production and production value of the global GM-type Pulse Tube Cryocooler (GM-PTC) market?
5. Who are the key producers in the global GM-type Pulse Tube Cryocooler (GM-PTC) market?
6. What are the growth factors driving the market demand?

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