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Global Conventional GM Cryocoolers Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G0F56DD74372EN.html
Date: September 2026
Pages: 103
Price: US$ 4,480.00 (Single User License)
ID: G0F56DD74372EN

Abstracts

The global Conventional GM Cryocoolers market size is expected to reach $ 558 million by 2032, rising at a market growth of 5.0% CAGR during the forecast period (2026-2032).

Conventional GM Cryocoolers, also referred to GM Cryogenic Refrigerators or GM cryocoolers, are mechanical cryogenic refrigeration systems that use helium as the principal working fluid and employ a closed-cycle helium compressor, high- and low-pressure gas lines, and a cryogenic cold head to provide continuous refrigeration. Under the broad market scope adopted in this report, the category comprises conventional Conventional GM Cryocoolers, GM-type pulse tube cryocoolers, and Gifford-McMahon/Joule-Thomson refrigerators. During operation, helium circulates within a sealed system and removes heat through compression, expansion, regenerative heat exchange, pressure oscillation, or throttling processes, enabling stable cryogenic cooling without the continuous consumption of liquid nitrogen or liquid helium.

In 2025, global Conventional GM Cryocoolers production reached approximately 21.9 k units, with an average global market price of around US$ 24.6 k per unit

The principal upstream materials include oxygen-free high-conductivity copper for cold tips, heat exchangers, thermal links and bus structures; stainless steel and nickel-alloy precision tubes for pressure cylinders, displacers, gas lines and structural components; stainless-steel mesh, phosphor-bronze mesh, lead particles and rare-earth compounds for regenerators; engineering plastics and composite materials for displacer bodies and thermal insulation; lubricants, adsorbents and oil-separation materials for helium compressors; and precision valves, motors, bearings, seals, sensors, electronic

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controllers and power modules. Representative oxygen-free copper suppliers include Mitsubishi Materials and Luvata; Mitsubishi Materials describes oxygen-free copper as a high-purity material with high electrical and thermal conductivity. Alleima is a representative supplier of seamless and redrawn stainless-steel and nickel-alloy precision tubing

Representative downstream users include Siemens Healthineers, GE HealthCare, Applied Materials, Lam Research, Tokyo Electron and KLA, etc.

The gross margin of Conventional GM Cryocoolers are generally estimated at approximately 25%–45%.

Conventional GM Cryocoolers are mechanical cryogenic refrigeration systems that use a closed helium cycle, a regenerator and a reciprocating displacer to provide continuous low-temperature cooling. By operating-temperature range, the market is divided into Under 10K or 10K, 10.1K-30K and Above 30K products. Under 10K or 10K systems are generally based on two-stage refrigeration structures and are designed for superconducting magnets, low-temperature physics and other deep-cryogenic applications. They require advanced regenerator materials, precision manufacturing and high long-term reliability, making them one of the most technically demanding product categories.

The principal downstream applications are MRI and NMR, Scientific Instruments and Laboratory Cryostats, Cryopumps and Vacuum Systems, and Others. MRI and NMR applications include medical magnetic resonance imaging systems and analytical nuclear magnetic resonance spectrometers, where Conventional GM Cryocoolers continuously cool superconducting magnets, reduce helium boil-off and support low-helium or cryogen-free system designs. Scientific Instruments and Laboratory Cryostats cover laboratory cryostats, superconducting magnet platforms, material-property measurement systems, quantum research, spectroscopy, detector testing and cryogenic microscopy. This segment is characterized by diversified specifications, relatively limited production volumes and a high degree of customization. Cryopumps and Vacuum Systems use Conventional GM Cryocoolers to create cryogenic condensation and adsorption surfaces for semiconductor manufacturing, display production, optical coating, electronic-device processing and scientific vacuum systems.

The global Closed Cycle Gifford-Mcmahon Cryocooler market is characterized by high technical barriers and demanding customer-qualification requirements. Major participants include Sumitomo Heavy Industries, Edwards Vacuum LLC, ULVAC

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CRYOGENICS, Bluefors Oy through Cryomech, Pengli Technology, Bwokai Technologies, Suzhou Bama Superconductive Technology, Hynhe Technology, Advanced Research System and Oxford Cryosystems. Leading manufacturers generally possess extensive cryogenic engineering experience, proprietary cold-head and compressor technologies, broad product portfolios, long-term reliability records and international service capabilities. Their ability to supply cold heads, helium compressors, gas lines, controllers and system-integration support creates substantial competitive advantages. Chinese manufacturers are progressively establishing domestic Closed Cycle Gifford-Mcmahon Cryocooler product lines and expanding into scientific instruments, cryogenic vacuum equipment, superconducting systems and import-substitution projects, although further progress is still required in advanced regenerator materials, ultra-low-vibration design, extended operating life and international customer qualification.

Market growth is supported by multiple driving factors. Expansion of the installed base of medical magnetic resonance imaging equipment and the transition toward low-helium and cryogen-free superconducting magnet systems are increasing demand for closed-cycle refrigeration. Continued development of quantum computing, quantum sensing, superconducting detection and cryogenic material research is encouraging laboratories and research institutions to deploy more low-temperature platforms. Sustained demand for high-vacuum processing in semiconductor, display and advanced electronic-device manufacturing supports the market for cryopumps and their integrated GM refrigeration units. Helium-price volatility and concerns regarding helium-supply security are encouraging users to adopt helium recondensation and closed-cycle refrigeration systems. In addition, improvements in cold-head lifetime, compressor efficiency, vibration management, digital controls and remote condition monitoring are enhancing system reliability and expanding addressable applications.

The market also faces several restraints. Conventional GM Cryocoolers contain precision displacers, regenerators, rotary valves and helium compressors, resulting in demanding manufacturing tolerances and relatively high production costs. Deep-cryogenic models depend on specialized rare-earth regenerator materials, precision machining and low-temperature sealing technologies, creating potential supply-chain constraints. Long product-lifetime testing, application matching and customer-qualification procedures make it difficult for new entrants to obtain approvals from medical, semiconductor and major scientific-equipment customers. Furthermore, fluctuations in medical-equipment investment, semiconductor capital expenditure and the approval schedules of large scientific projects can create cyclical and project-related volatility in market demand.

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Report Scope

This report studies the global Conventional GM Cryocoolers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Conventional GM Cryocoolers 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 Conventional GM Cryocoolers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Conventional GM Cryocoolers total production and demand, 2021-2032, (Units)

Global Conventional GM Cryocoolers total production value, 2021-2032, (USD Million)

Global Conventional GM Cryocoolers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Conventional GM Cryocoolers consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Conventional GM Cryocoolers domestic production, consumption, key domestic manufacturers and share

Global Conventional GM Cryocoolers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Conventional GM Cryocoolers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Conventional GM Cryocoolers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

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This report profiles key players in the global Conventional GM Cryocoolers 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 (SHI), Edwards Vacuum LLC, ULVAC CRYOGENICS, Bluefors Oy (Cryomech), Pengli Technology, Bwokai Technologies, Suzhou Bama Superconductive Technology, Hynhe Technology, Advanced Research System, Oxford Cryosystems, 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 Conventional GM Cryocoolers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Units) and average price (K 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 Conventional GM Cryocoolers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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Market Segmentation

Global Conventional GM Cryocoolers Market, Segmentation by Type:

Under 10K or 10K

10.1K-30K

Above 30K

Global Conventional GM Cryocoolers Market, Segmentation by Number of Cooling Stages:

Single-Stage Gifford-McMahon Cryocooler

Two-Stage Gifford-McMahon Cryocooler

Global Conventional GM Cryocoolers Market, Segmentation by End-use Industry:

Semiconductor and Electronic Device Manufacturing

Medical and Life Sciences

Research and Development

Energy and Superconducting Technology

Industrial Gases and Cryogenic Processing

Others

Global Conventional GM Cryocoolers Market, Segmentation by

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Application:

MRI and NMR

Scientific Instruments and Laboratory Cryostats

Cryopumps and Vacuum Systems

Others

Companies Profiled:

Sumitomo Heavy Industries (SHI)

Edwards Vacuum LLC

ULVAC CRYOGENICS

Bluefors Oy (Cryomech)

Pengli Technology

Bwokai Technologies

Suzhou Bama Superconductive Technology

Hynhe Technology

Advanced Research System

Oxford Cryosystems

Key Questions Answered

1. How big is the global Conventional GM Cryocoolers market?
2. What is the demand of the global Conventional GM Cryocoolers market?

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3. What is the year over year growth of the global Conventional GM Cryocoolers market?
4. What is the total value of the global Conventional GM Cryocoolers market?
5. Who are the Major Players in the global Conventional GM Cryocoolers market?
6. What are the growth factors driving the market demand?

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