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Global Conventional GM Cryocoolers Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Conventional GM Cryocoolers market size was valued at US$ 393 million in 2025 and is forecast to a readjusted size of US$ 558 million by 2032 with a CAGR of 5.0% during review period.

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

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compressors; and precision valves, motors, bearings, seals, sensors, electronic 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

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participants include Sumitomo Heavy Industries, Edwards Vacuum LLC, ULVAC 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

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volatility in market demand.

Report Scope

This report is a detailed and comprehensive analysis for global Conventional GM Cryocoolers market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Conventional GM Cryocoolers market size and forecasts, in consumption value ($ Million), sales quantity (Units), and average selling prices (K US$/Unit), 2021-2032

Global Conventional GM Cryocoolers market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Units), and average selling prices (K US$/Unit), 2021-2032

Global Conventional GM Cryocoolers market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Units), and average selling prices (K US$/Unit), 2021-2032

Global Conventional GM Cryocoolers market shares of main players, shipments in revenue ($ Million), sales quantity (Units), and ASP (K US$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Conventional GM Cryocoolers

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

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This report profiles key players in the global Conventional GM Cryocoolers market based on the following parameters - company overview, sales quantity, revenue, 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.

Conventional GM Cryocoolers market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market Segmentation

Market segment by Type

Under 10K or 10K

10.1K-30K

Above 30K

Market segment by Number of Cooling Stages

Single-Stage Gifford-McMahon Cryocooler

Two-Stage Gifford-McMahon Cryocooler

Market segment by End-use Industry

Semiconductor and Electronic Device Manufacturing

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Medical and Life Sciences

Research and Development

Energy and Superconducting Technology

Industrial Gases and Cryogenic Processing

Others

Market segment by Application

MRI and NMR

Scientific Instruments and Laboratory Cryostats

Cryopumps and Vacuum Systems

Others

Major players covered

Sumitomo Heavy Industries (SHI)

Edwards Vacuum LLC

ULVAC CRYOGENICS

Bluefors Oy (Cryomech)

Pengli Technology

Bwokai Technologies

Suzhou Bama Superconductive Technology

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Hynhe Technology

Advanced Research System

Oxford Cryosystems

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Conventional GM Cryocoolers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Conventional GM Cryocoolers, with price, sales quantity, revenue, and global market share of Conventional GM Cryocoolers from 2021 to 2026.

Chapter 3, the Conventional GM Cryocoolers competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Conventional GM Cryocoolers breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Conventional GM Cryocoolers market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Conventional GM Cryocoolers.

Chapter 14 and 15, to describe Conventional GM Cryocoolers sales channel, distributors, customers, research findings and conclusion.

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