

# Global Gifford-Mcmahon Cryocoolers Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global Gifford-Mcmahon Cryocoolers market size will reach 632.80 Million USD in 2025 and is projected to reach 974.35 Million USD by 2032, with a CAGR of 6.36% (2025-2032). Notably, the China Gifford-Mcmahon Cryocoolers market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

Gifford-McMahon (GM) cryocoolers are a type of mechanical refrigeration system used to achieve low temperatures, typically in the range of 20 to 100 Kelvin, by utilizing the thermodynamic principles of compression and expansion of gases. These cryocoolers operate using a two-stage process: first, a compressor compresses a refrigerant gas (usually helium or nitrogen), which is then cooled and expanded through an expansion valve or orifice, resulting in a drop in temperature. The cold gas is then circulated through a cold head that is in contact with the object or system that needs cooling, such as scientific instruments, infrared detectors, or superconducting devices. GM cryocoolers are known for their efficiency, reliability, and the ability to achieve continuous cooling without the need for liquid cryogenes. They are widely used in applications requiring precise, long-term low-temperature control, such as in space exploration, medical imaging, and cryogenic research.

The major global manufacturers of Gifford-Mcmahon Cryocoolers include Sumitomo Heavy Industries (SHI), Bluefors Oy, Edwards Vacuum LLC, ULVAC CRYOGENICS,

Pengli Technology, Advanced Research System, Oxford Cryosystems, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Gifford-Mcmahon Cryocoolers. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Gifford-Mcmahon Cryocoolers market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Gifford-Mcmahon Cryocoolers market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Gifford-Mcmahon Cryocoolers industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Gifford-Mcmahon Cryocoolers Include:

Sumitomo Heavy Industries (SHI)

Bluefors Oy

Edwards Vacuum LLC

ULVAC CRYOGENICS

Pengli Technology

Advanced Research System

Oxford Cryosystems

Gifford-Mcmahon Cryocoolers Product Segment Include:

Under 10K or 10K

10K-30K

Above 30K

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Semiconductor

Biology and Medical Use

Research and Development

Aerospace

Others

## **Chapter Scope**

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