

Global 1.5T Liquid Helium-Free Superconducting Magnet Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G3C73B3BC92EEN.html>

Date: February 2026

Pages: 98

Price: US\$ 4,480.00 (Single User License)

ID: G3C73B3BC92EEN

Abstracts

The global 1.5T Liquid Helium-Free Superconducting Magnet market size is expected to reach \$ 1418 million by 2032, rising at a market growth of 4.7% CAGR during the forecast period (2026-2032).

In 2025, global 1.5T Liquid Helium-Free Superconducting Magnet production reached approximately 1.2k units, with an average global market price of around US\$800k per unit.

A 1.5T “liquid-helium-free” superconducting magnet typically means a 1.5-tesla superconducting main magnet designed to avoid on-site liquid helium refills—either by sealing a small helium volume inside a closed circuit or by using dry cryocooling to maintain operating temperature. It provides a stable 1.5T B₀ field (commonly for 1.5T MRI) while reducing dependence on helium delivery, quench infrastructure, and helium expertise, improving uptime and lowering lifecycle costs. For example, Philips BlueSeal promotes “helium-free operations” with ~7 liters of helium sealed in the circuit (no refills).

Upstream spans superconducting conductors and metals (typically NbTi wire/tape, copper stabilizer, stainless/aluminum structures), cryogenic vacuum & insulation (vacuum vessel, MLI, radiation shields), cryocoolers/cold heads, power & protection (energization supply, quench monitoring/protection), and shimming/shielding components. Representative suppliers include cryocooler providers such as Sumitomo Heavy Industries and Cryomech, and power semiconductor ecosystems such as Infineon Technologies supporting power electronics. Downstream is led by MRI OEMs and clinical users—OEMs include Philips, Siemens Healthineers, GE HealthCare, Canon

Medical Systems—with end users in hospitals, imaging centers, and research MR platforms.

The annual production capacity of a single-line 1.5T Liquid Helium-Free Superconducting Magnet is approximately 80 units, with a gross profit margin of approximately 35%-45%.

This report studies the global 1.5T Liquid Helium-Free Superconducting Magnet production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 1.5T Liquid Helium-Free Superconducting Magnet 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 1.5T Liquid Helium-Free Superconducting Magnet that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 1.5T Liquid Helium-Free Superconducting Magnet total production and demand, 2021-2032, (K Units)

Global 1.5T Liquid Helium-Free Superconducting Magnet total production value, 2021-2032, (USD Million)

Global 1.5T Liquid Helium-Free Superconducting Magnet production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global 1.5T Liquid Helium-Free Superconducting Magnet consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: 1.5T Liquid Helium-Free Superconducting Magnet domestic production, consumption, key domestic manufacturers and share

Global 1.5T Liquid Helium-Free Superconducting Magnet production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global 1.5T Liquid Helium-Free Superconducting Magnet production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global 1.5T Liquid Helium-Free Superconducting Magnet production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global 1.5T Liquid Helium-Free Superconducting Magnet 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 Philips, MR Solutions, Magnetica, Cryogenic, JASTEC, Chenguang Medical, Xingaoyi Medical, Western Superconductivity, Ningbo Jansen NMR, 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 1.5T Liquid Helium-Free Superconducting Magnet market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 1.5T Liquid Helium-Free Superconducting Magnet Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 1.5T Liquid Helium-Free Superconducting Magnet Market, Segmentation by Type:

Permanent Magnet

Superconducting

Global 1.5T Liquid Helium-Free Superconducting Magnet Market, Segmentation by Bore Diameter:

70 cm

80 cm

Global 1.5T Liquid Helium-Free Superconducting Magnet Market, Segmentation by Application:

Medical

Scientific Research

Others

Companies Profiled:

Philips

MR Solutions

Magnetica

Cryogenic

JASTEC

Chenguang Medical

Xingaoyi Medical

Western Superconductivity

Ningbo Jansen NMR

Key Questions Answered:

1. How big is the global 1.5T Liquid Helium-Free Superconducting Magnet market?
2. What is the demand of the global 1.5T Liquid Helium-Free Superconducting Magnet market?
3. What is the year over year growth of the global 1.5T Liquid Helium-Free Superconducting Magnet market?
4. What is the production and production value of the global 1.5T Liquid Helium-Free Superconducting Magnet market?
5. Who are the key producers in the global 1.5T Liquid Helium-Free Superconducting Magnet market?
6. What are the growth factors driving the market demand?

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