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Global Low-Temperature Magnetic Property Measurement System (MPMS) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Low-Temperature Magnetic Property Measurement System (MPMS) market size is expected to reach $ 307 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

Low-Temperature Magnetic Property Measurement System (MPMS) is a high-precision scientific instrument designed for characterizing magnetic properties of materials under cryogenic environments. The system integrates superconducting magnets, cryogenic refrigeration platforms, highly sensitive magnetic moment detection modules, precision control electronics and measurement software to perform measurements of magnetization, magnetic susceptibility, hysteresis loops, coercivity, remanence and magnetic anisotropy from liquid helium temperatures (approximately 4K) to room temperature. This research focuses on MPMS solutions applied in quantum materials, superconducting materials, magnetic semiconductor research, advanced magnetic materials, energy materials and fundamental physics experiments.

Key Findings

Global MPMS shipments reached approximately 520 systems in 2025 with an average selling price of US$380 thousand per system

Global MPMS production capacity reached approximately 750 systems annually in 2025 with industry gross margins of 40%–50%

Liquid helium cooled and 4K-range systems represent the mainstream product

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categories

University laboratories and research institutions are the largest downstream application groups

Quantum materials and superconducting research are major emerging demand areas

Market Trends

The low-temperature magnetic property measurement system industry is moving toward lower temperature operation, stronger magnetic fields, higher sensitivity and automated testing capabilities. Traditional liquid helium cooled MPMS platforms remain widely used in academic and research environments, while next-generation systems are increasingly integrating dilution refrigeration technology, high-field superconducting magnets, low-noise electronics and intelligent measurement software. The development of quantum computing, advanced semiconductor materials and novel magnetic devices is creating demand for more precise magnetic characterization under extreme environments. Future systems are expected to incorporate automated sample handling, artificial intelligence-assisted data interpretation, cloud-based experiment management and integration with multifunctional physical property measurement platforms, improving experimental efficiency and reducing operation complexity.

Market Dynamics

Drivers

The growth of the low-temperature magnetic property measurement system market is primarily driven by increasing research activities in quantum technologies, superconducting materials, spintronic devices and advanced functional materials. The rapid development of quantum computing requires precise characterization of superconducting circuits, magnetic quantum materials and low-temperature electronic components. Meanwhile, demand from universities, national laboratories and industrial research centers continues to increase as material innovation becomes a key driver in semiconductor, energy storage and advanced manufacturing industries.

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Restraints

The market is constrained by high equipment costs, complex operation requirements and limited application scenarios compared with conventional magnetic measurement instruments. MPMS systems require advanced superconducting magnet technology, cryogenic engineering capabilities and specialized maintenance services, creating high technical and financial barriers for users. In addition, dependence on helium resources and the complexity of cryogenic operation may influence equipment adoption among smaller research organizations.

Opportunities

Future opportunities are emerging from quantum computing commercialization, next-generation semiconductor development, advanced magnetic materials and domestic high-end scientific instrument development. Systems with lower helium consumption, cryogen-free operation, higher magnetic field strength and integrated automation capabilities are expected to gain market attention. Expansion of industrial research applications, including magnetic memory devices, superconducting technologies and energy-related materials, will further broaden commercial opportunities.

Challenges

The MPMS industry faces challenges in improving measurement accuracy, reducing system complexity and maintaining long-term reliability under extreme low-temperature conditions. Manufacturers need to balance performance improvement with equipment cost reduction while developing standardized platforms suitable for broader research and industrial applications. Competition from alternative magnetic characterization technologies and multifunctional material analysis platforms will also require continuous innovation.

Industry Chain Analysis

The MPMS industry chain consists of upstream precision material suppliers, midstream scientific instrument manufacturers and downstream research users. The upstream segment provides high-purity oxygen-free copper, superconducting wires, niobium-titanium alloys, cryogenic stainless steel, magnetic shielding materials, precision machining components, cryogenic sensors, vacuum components, electronic modules

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and control chips. Superconducting magnet assemblies, cryogenic structures, magnetic field control modules and high-sensitivity detection components represent key cost and material consumption areas. Midstream manufacturers are responsible for superconducting magnet design, cryogenic system integration, magnetic measurement module development, software control, calibration testing and customized system solutions. Downstream users mainly include universities, national laboratories, quantum technology companies, semiconductor research organizations, material laboratories and energy technology enterprises. The main value creation areas are concentrated in ultra-sensitive measurement technology, cryogenic engineering capability, system integration and application-specific solutions.

Segment Insights

Low-temperature magnetic property measurement systems can be segmented by cryogenic technology, magnetic field strength and automation level. By cryogenic technology, liquid helium cooled MPMS systems represent the largest segment due to their mature technology and wide adoption in scientific research, while 4K-range systems provide a balance between performance and operating cost. Dilution refrigerator MPMS systems represent a smaller but rapidly developing segment for millikelvin-level quantum material and quantum computing research. By magnetic field strength, medium-field systems represent the mainstream market, while high-field systems serve advanced materials research requiring stronger magnetic environments. By automation level, semi-automatic systems currently dominate research laboratories, while fully automated platforms are gaining adoption for high-throughput experiments.

Downstream Market Opportunities

The downstream market mainly includes university laboratories, national research institutions, quantum computing companies, semiconductor research centers and advanced material enterprises. Academic and government research institutions represent the core user base due to continuous demand for fundamental material characterization. Future opportunities are expected from quantum computing ecosystems, superconducting technologies, magnetic memory development and industrial material research where high-precision low-temperature magnetic analysis is essential.

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Regional Insights

North America and Europe maintain strong positions in the MPMS market due to established scientific research infrastructure, advanced material research capabilities and high investment in fundamental physics. Asia-Pacific is becoming the fastest-growing demand region, supported by expansion of quantum research programs, semiconductor development and high-end scientific instrument localization. China, Japan and South Korea are increasing investment in advanced materials and low-temperature research platforms, creating new opportunities for regional suppliers and technology providers.

Competitive Landscape Analysis

The low-temperature magnetic property measurement system market is characterized by high technical barriers and concentration among specialized scientific instrument manufacturers. Quantum Design and Lake Shore are recognized as important suppliers with strong capabilities in magnetic measurement platforms and cryogenic instrumentation. Oxford Instruments has significant expertise in superconducting magnets, cryogenic systems and advanced research equipment. Chinese companies such as Beijing East Changing Technology and CSSC Pengli (Nanjing) Technology are expanding capabilities through localized development of cryogenic systems and scientific instruments. Future competition will focus on measurement sensitivity, cryogenic technology innovation, automation capabilities, software integration and customized solutions for emerging research fields.

Report Scope

This report studies the global Low-Temperature Magnetic Property Measurement System (MPMS) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Low-Temperature Magnetic Property Measurement System (MPMS) 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 Low-Temperature Magnetic Property Measurement System (MPMS) that contribute to its increasing demand across many markets.

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Highlights and key features of the study

Global Low-Temperature Magnetic Property Measurement System (MPMS) total production and demand, 2021-2032, (Units)

Global Low-Temperature Magnetic Property Measurement System (MPMS) total production value, 2021-2032, (USD Million)

Global Low-Temperature Magnetic Property Measurement System (MPMS) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Low-Temperature Magnetic Property Measurement System (MPMS) consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Low-Temperature Magnetic Property Measurement System (MPMS) domestic production, consumption, key domestic manufacturers and share

Global Low-Temperature Magnetic Property Measurement System (MPMS) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Low-Temperature Magnetic Property Measurement System (MPMS) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Low-Temperature Magnetic Property Measurement System (MPMS) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Low-Temperature Magnetic Property Measurement System (MPMS) 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 Quantum Design, Lake Shore, Oxford Instruments, Beijing East Changing

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Technology, CSSC Pengli (Nanjing) 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 Low-Temperature Magnetic Property Measurement System (MPMS) 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 Low-Temperature Magnetic Property Measurement System (MPMS) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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Market Segmentation

Global Low-Temperature Magnetic Property Measurement System (MPMS) Market, Segmentation by Type:

Liquid Helium Cooled MPMS

4K Range MPMS

Dilution Refrigerator MPMS

Global Low-Temperature Magnetic Property Measurement System (MPMS) Market, Segmentation by Magnetic Field Intensity:

Low Magnetic Field MPMS

Medium Magnetic Field MPMS

High Magnetic Field MPMS

Global Low-Temperature Magnetic Property Measurement System (MPMS) Market, Segmentation by Level of Automation:

Manual Type

Semi-automatic Type

Fully Automatic Type

Global Low-Temperature Magnetic Property Measurement System (MPMS) Market, Segmentation by Application:

University Laboratories

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National Research Institutions

Quantum Computing

Others

Companies Profiled:

Quantum Design

Lake Shore

Oxford Instruments

Beijing East Changing Technology

CSSC Pengli (Nanjing) Technology

Key Questions Answered

1. How big is the global Low-Temperature Magnetic Property Measurement System (MPMS) market?
2. What is the demand of the global Low-Temperature Magnetic Property Measurement System (MPMS) market?
3. What is the year over year growth of the global Low-Temperature Magnetic Property Measurement System (MPMS) market?
4. What is the total value of the global Low-Temperature Magnetic Property Measurement System (MPMS) market?
5. Who are the Major Players in the global Low-Temperature Magnetic Property Measurement System (MPMS) market?
6. What are the growth factors driving the market demand?

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Contents

1 SUPPLY SUMMARY

1.1 Low-Temperature Magnetic Property Measurement System (MPMS) Introduction
1.2 World Low-Temperature Magnetic Property Measurement System (MPMS) Supply & Forecast
  1.2.1 World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value (2021 & 2025 & 2032)
  1.2.2 World Low-Temperature Magnetic Property Measurement System (MPMS) Production (2021-2032)
  1.2.3 World Low-Temperature Magnetic Property Measurement System (MPMS) Pricing Trends (2021-2032)
1.3 World Low-Temperature Magnetic Property Measurement System (MPMS) Production by Region (Based on Production Site)
  1.3.1 World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value by Region (2021-2032)
  1.3.2 World Low-Temperature Magnetic Property Measurement System (MPMS) Production by Region (2021-2032)
  1.3.3 World Low-Temperature Magnetic Property Measurement System (MPMS) Average Price by Region (2021-2032)
  1.3.4 North America Low-Temperature Magnetic Property Measurement System (MPMS) Production (2021-2032)
  1.3.5 Europe Low-Temperature Magnetic Property Measurement System (MPMS) Production (2021-2032)
  1.3.6 China Low-Temperature Magnetic Property Measurement System (MPMS) Production (2021-2032)
  1.3.7 Japan Low-Temperature Magnetic Property Measurement System (MPMS) Production (2021-2032)
1.4 Market Drivers, Restraints and Trends
  1.4.1 Low-Temperature Magnetic Property Measurement System (MPMS) Market Drivers
  1.4.2 Factors Affecting Demand
  1.4.3 Low-Temperature Magnetic Property Measurement System (MPMS) Major Market Trends

2 DEMAND SUMMARY

2.1 World Low-Temperature Magnetic Property Measurement System (MPMS) Demand

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(2021-2032)
2.2 World Low-Temperature Magnetic Property Measurement System (MPMS) Consumption by Region
2.2.1 World Low-Temperature Magnetic Property Measurement System (MPMS) Consumption by Region (2021-2026)
2.2.2 World Low-Temperature Magnetic Property Measurement System (MPMS) Consumption Forecast by Region (2027-2032)
2.3 United States Low-Temperature Magnetic Property Measurement System (MPMS) Consumption (2021-2032)
2.4 China Low-Temperature Magnetic Property Measurement System (MPMS) Consumption (2021-2032)
2.5 Europe Low-Temperature Magnetic Property Measurement System (MPMS) Consumption (2021-2032)
2.6 Japan Low-Temperature Magnetic Property Measurement System (MPMS) Consumption (2021-2032)
2.7 South Korea Low-Temperature Magnetic Property Measurement System (MPMS) Consumption (2021-2032)
2.8 ASEAN Low-Temperature Magnetic Property Measurement System (MPMS) Consumption (2021-2032)
2.9 India Low-Temperature Magnetic Property Measurement System (MPMS) Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value by Manufacturer (2021-2026)
3.2 World Low-Temperature Magnetic Property Measurement System (MPMS) Production by Manufacturer (2021-2026)
3.3 World Low-Temperature Magnetic Property Measurement System (MPMS) Average Price by Manufacturer (2021-2026)
3.4 Low-Temperature Magnetic Property Measurement System (MPMS) Company Evaluation Quadrant
3.5 Industry Rank and Concentration Rate (CR)
3.5.1 Global Low-Temperature Magnetic Property Measurement System (MPMS) Industry Rank of Major Manufacturers
3.5.2 Global Concentration Ratios (CR4) for Low-Temperature Magnetic Property Measurement System (MPMS) in 2025
3.5.3 Global Concentration Ratios (CR8) for Low-Temperature Magnetic Property Measurement System (MPMS) in 2025

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info@marketpublishers.com

3.6 Low-Temperature Magnetic Property Measurement System (MPMS) Market: Overall Company Footprint Analysis
3.6.1 Low-Temperature Magnetic Property Measurement System (MPMS) Market: Region Footprint
3.6.2 Low-Temperature Magnetic Property Measurement System (MPMS) Market: Company Product Type Footprint
3.6.3 Low-Temperature Magnetic Property Measurement System (MPMS) Market: Company Product Application Footprint
3.7 Competitive Environment
3.7.1 Historical Structure of the Industry
3.7.2 Barriers of Market Entry
3.7.3 Factors of Competition
3.8 New Entrant and Capacity Expansion Plans
3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Low-Temperature Magnetic Property Measurement System (MPMS) Production Value Comparison
4.1.1 United States VS China: Low-Temperature Magnetic Property Measurement System (MPMS) Production Value Comparison (2021 & 2025 & 2032)
4.1.2 United States VS China: Low-Temperature Magnetic Property Measurement System (MPMS) Production Value Market Share Comparison (2021 & 2025 & 2032)
4.2 United States VS China: Low-Temperature Magnetic Property Measurement System (MPMS) Production Comparison
4.2.1 United States VS China: Low-Temperature Magnetic Property Measurement System (MPMS) Production Comparison (2021 & 2025 & 2032)
4.2.2 United States VS China: Low-Temperature Magnetic Property Measurement System (MPMS) Production Market Share Comparison (2021 & 2025 & 2032)
4.3 United States VS China: Low-Temperature Magnetic Property Measurement System (MPMS) Consumption Comparison
4.3.1 United States VS China: Low-Temperature Magnetic Property Measurement System (MPMS) Consumption Comparison (2021 & 2025 & 2032)
4.3.2 United States VS China: Low-Temperature Magnetic Property Measurement System (MPMS) Consumption Market Share Comparison (2021 & 2025 & 2032)
4.4 United States Based Low-Temperature Magnetic Property Measurement System (MPMS) Manufacturers and Market Share, 2021-2026
4.4.1 United States Based Low-Temperature Magnetic Property Measurement System (MPMS) Manufacturers, Headquarters and Production Site (States, Country)

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4.4.2 United States Based Manufacturers Low-Temperature Magnetic Property Measurement System (MPMS) Production Value (2021-2026)
4.4.3 United States Based Manufacturers Low-Temperature Magnetic Property Measurement System (MPMS) Production (2021-2026)
4.5 China Based Low-Temperature Magnetic Property Measurement System (MPMS) Manufacturers and Market Share
4.5.1 China Based Low-Temperature Magnetic Property Measurement System (MPMS) Manufacturers, Headquarters and Production Site (Province, Country)
4.5.2 China Based Manufacturers Low-Temperature Magnetic Property Measurement System (MPMS) Production Value (2021-2026)
4.5.3 China Based Manufacturers Low-Temperature Magnetic Property Measurement System (MPMS) Production (2021-2026)
4.6 Rest of World Based Low-Temperature Magnetic Property Measurement System (MPMS) Manufacturers and Market Share, 2021-2026
4.6.1 Rest of World Based Low-Temperature Magnetic Property Measurement System (MPMS) Manufacturers, Headquarters and Production Site (State, Country)
4.6.2 Rest of World Based Manufacturers Low-Temperature Magnetic Property Measurement System (MPMS) Production Value (2021-2026)
4.6.3 Rest of World Based Manufacturers Low-Temperature Magnetic Property Measurement System (MPMS) Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Low-Temperature Magnetic Property Measurement System (MPMS) Market Size Overview by Type: 2021 VS 2025 VS 2032
5.2 Segment Introduction by Type
5.2.1 Liquid Helium Cooled MPMS
5.2.2 4K Range MPMS
5.2.3 Dilution Refrigerator MPMS
5.3 Market Segment by Type
5.3.1 World Low-Temperature Magnetic Property Measurement System (MPMS) Production by Type (2021-2032)
5.3.2 World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value by Type (2021-2032)
5.3.3 World Low-Temperature Magnetic Property Measurement System (MPMS) Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY MAGNETIC FIELD INTENSITY

+357 96 030922
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6.1 World Low-Temperature Magnetic Property Measurement System (MPMS) Market Size Overview by Magnetic Field Intensity: 2021 VS 2025 VS 2032
6.2 Segment Introduction by Magnetic Field Intensity
  6.2.1 Low Magnetic Field MPMS
  6.2.2 Medium Magnetic Field MPMS
  6.2.3 High Magnetic Field MPMS
6.3 Market Segment by Magnetic Field Intensity
  6.3.1 World Low-Temperature Magnetic Property Measurement System (MPMS) Production by Magnetic Field Intensity (2021-2032)
  6.3.2 World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value by Magnetic Field Intensity (2021-2032)
  6.3.3 World Low-Temperature Magnetic Property Measurement System (MPMS) Average Price by Magnetic Field Intensity (2021-2032)

7 MARKET ANALYSIS BY LEVEL OF AUTOMATION

7.1 World Low-Temperature Magnetic Property Measurement System (MPMS) Market Size Overview by Level of Automation: 2021 VS 2025 VS 2032
7.2 Segment Introduction by Level of Automation
  7.2.1 Manual Type
  7.2.2 Semi-automatic Type
  7.2.3 Fully Automatic Type
7.3 Market Segment by Level of Automation
  7.3.1 World Low-Temperature Magnetic Property Measurement System (MPMS) Production by Level of Automation (2021-2032)
  7.3.2 World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value by Level of Automation (2021-2032)
  7.3.3 World Low-Temperature Magnetic Property Measurement System (MPMS) Average Price by Level of Automation (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Low-Temperature Magnetic Property Measurement System (MPMS) Market Size Overview by Application: 2021 VS 2025 VS 2032
8.2 Segment Introduction by Application
  8.2.1 University Laboratories
  8.2.2 National Research Institutions
  8.2.3 Quantum Computing
  8.2.4 Others

+357 96 030922
info@marketpublishers.com

8.3 Market Segment by Application
8.3.1 World Low-Temperature Magnetic Property Measurement System (MPMS) Production by Application (2021-2032)
8.3.2 World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value by Application (2021-2032)
8.3.3 World Low-Temperature Magnetic Property Measurement System (MPMS) Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Quantum Design
9.1.1 Quantum Design Details
9.1.2 Quantum Design Major Business
9.1.3 Quantum Design Low-Temperature Magnetic Property Measurement System (MPMS) Product and Services
9.1.4 Quantum Design Low-Temperature Magnetic Property Measurement System (MPMS) Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.1.5 Quantum Design Recent Developments/Updates
9.1.6 Quantum Design Competitive Strengths & Weaknesses
9.2 Lake Shore
9.2.1 Lake Shore Details
9.2.2 Lake Shore Major Business
9.2.3 Lake Shore Low-Temperature Magnetic Property Measurement System (MPMS) Product and Services
9.2.4 Lake Shore Low-Temperature Magnetic Property Measurement System (MPMS) Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.2.5 Lake Shore Recent Developments/Updates
9.2.6 Lake Shore Competitive Strengths & Weaknesses
9.3 Oxford Instruments
9.3.1 Oxford Instruments Details
9.3.2 Oxford Instruments Major Business
9.3.3 Oxford Instruments Low-Temperature Magnetic Property Measurement System (MPMS) Product and Services
9.3.4 Oxford Instruments Low-Temperature Magnetic Property Measurement System (MPMS) Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.3.5 Oxford Instruments Recent Developments/Updates
9.3.6 Oxford Instruments Competitive Strengths & Weaknesses
9.4 Beijing East Changing Technology
9.4.1 Beijing East Changing Technology Details

+357 96 030922
info@marketpublishers.com

9.4.2 Beijing East Changing Technology Major Business
9.4.3 Beijing East Changing Technology Low-Temperature Magnetic Property Measurement System (MPMS) Product and Services
9.4.4 Beijing East Changing Technology Low-Temperature Magnetic Property Measurement System (MPMS) Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.4.5 Beijing East Changing Technology Recent Developments/Updates
9.4.6 Beijing East Changing Technology Competitive Strengths & Weaknesses
9.5 CSSC Pengli (Nanjing) Technology
9.5.1 CSSC Pengli (Nanjing) Technology Details
9.5.2 CSSC Pengli (Nanjing) Technology Major Business
9.5.3 CSSC Pengli (Nanjing) Technology Low-Temperature Magnetic Property Measurement System (MPMS) Product and Services
9.5.4 CSSC Pengli (Nanjing) Technology Low-Temperature Magnetic Property Measurement System (MPMS) Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.5.5 CSSC Pengli (Nanjing) Technology Recent Developments/Updates
9.5.6 CSSC Pengli (Nanjing) Technology Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Low-Temperature Magnetic Property Measurement System (MPMS) Industry Chain
10.2 Low-Temperature Magnetic Property Measurement System (MPMS) Upstream Analysis
10.2.1 Low-Temperature Magnetic Property Measurement System (MPMS) Core Raw Materials
10.2.2 Main Manufacturers of Low-Temperature Magnetic Property Measurement System (MPMS) Core Raw Materials
10.3 Midstream Analysis
10.4 Downstream Analysis
10.5 Low-Temperature Magnetic Property Measurement System (MPMS) Production Mode
10.6 Low-Temperature Magnetic Property Measurement System (MPMS) Procurement Model
10.7 Low-Temperature Magnetic Property Measurement System (MPMS) Industry Sales Model and Sales Channels
10.7.1 Low-Temperature Magnetic Property Measurement System (MPMS) Sales Model

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info@marketpublishers.com

10.7.2 Low-Temperature Magnetic Property Measurement System (MPMS) Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology
12.2 Research Process and Data Source
12.3 Disclaimer

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List Of Tables

LIST OF TABLES

Table 1. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value by Region (2021, 2025 and 2032) & (USD Million)
Table 2. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value by Region (2021-2026) & (USD Million)
Table 3. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value by Region (2027-2032) & (USD Million)
Table 4. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value Market Share by Region (2021-2026)
Table 5. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value Market Share by Region (2027-2032)
Table 6. World Low-Temperature Magnetic Property Measurement System (MPMS) Production by Region (2021-2026) & (Units)
Table 7. World Low-Temperature Magnetic Property Measurement System (MPMS) Production by Region (2027-2032) & (Units)
Table 8. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Market Share by Region (2021-2026)
Table 9. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Market Share by Region (2027-2032)
Table 10. World Low-Temperature Magnetic Property Measurement System (MPMS) Average Price by Region (2021-2026) & (US$/Unit)
Table 11. World Low-Temperature Magnetic Property Measurement System (MPMS) Average Price by Region (2027-2032) & (US$/Unit)
Table 12. Low-Temperature Magnetic Property Measurement System (MPMS) Major Market Trends
Table 13. World Low-Temperature Magnetic Property Measurement System (MPMS) Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)
Table 14. World Low-Temperature Magnetic Property Measurement System (MPMS) Consumption by Region (2021-2026) & (Units)
Table 15. World Low-Temperature Magnetic Property Measurement System (MPMS) Consumption Forecast by Region (2027-2032) & (Units)
Table 16. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value by Manufacturer (2021-2026) & (USD Million)
Table 17. Production Value Market Share of Key Low-Temperature Magnetic Property Measurement System (MPMS) Producers in 2025
Table 18. World Low-Temperature Magnetic Property Measurement System (MPMS)

+357 96 030922
info@marketpublishers.com

Production by Manufacturer (2021-2026) & (Units)
Table 19. Production Market Share of Key Low-Temperature Magnetic Property Measurement System (MPMS) Producers in 2025
Table 20. World Low-Temperature Magnetic Property Measurement System (MPMS) Average Price by Manufacturer (2021-2026) & (US$/Unit)
Table 21. Global Low-Temperature Magnetic Property Measurement System (MPMS) Company Evaluation Quadrant
Table 22. World Low-Temperature Magnetic Property Measurement System (MPMS) Industry Rank of Major Manufacturers, Based on Production Value in 2025
Table 23. Head Office and Low-Temperature Magnetic Property Measurement System (MPMS) Production Site of Key Manufacturer
Table 24. Low-Temperature Magnetic Property Measurement System (MPMS) Market: Company Product Type Footprint
Table 25. Low-Temperature Magnetic Property Measurement System (MPMS) Market: Company Product Application Footprint
Table 26. Low-Temperature Magnetic Property Measurement System (MPMS) Competitive Factors
Table 27. Low-Temperature Magnetic Property Measurement System (MPMS) New Entrant and Capacity Expansion Plans
Table 28. Low-Temperature Magnetic Property Measurement System (MPMS) Mergers & Acquisitions Activity
Table 29. United States VS China Low-Temperature Magnetic Property Measurement System (MPMS) Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China Low-Temperature Magnetic Property Measurement System (MPMS) Production Comparison, (2021 & 2025 & 2032) & (Units)
Table 31. United States VS China Low-Temperature Magnetic Property Measurement System (MPMS) Consumption Comparison, (2021 & 2025 & 2032) & (Units)
Table 32. United States Based Low-Temperature Magnetic Property Measurement System (MPMS) Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers Low-Temperature Magnetic Property Measurement System (MPMS) Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers Low-Temperature Magnetic Property Measurement System (MPMS) Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers Low-Temperature Magnetic Property Measurement System (MPMS) Production (2021-2026) & (Units)
Table 36. United States Based Manufacturers Low-Temperature Magnetic Property Measurement System (MPMS) Production Market Share (2021-2026)
Table 37. China Based Low-Temperature Magnetic Property Measurement System (MPMS) Manufacturers, Headquarters and Production Site (Province, Country)

+357 96 030922
info@marketpublishers.com

Table 38. China Based Manufacturers Low-Temperature Magnetic Property Measurement System (MPMS) Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers Low-Temperature Magnetic Property Measurement System (MPMS) Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers Low-Temperature Magnetic Property Measurement System (MPMS) Production, (2021-2026) & (Units)
Table 41. China Based Manufacturers Low-Temperature Magnetic Property Measurement System (MPMS) Production Market Share (2021-2026)
Table 42. Rest of World Based Low-Temperature Magnetic Property Measurement System (MPMS) Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers Low-Temperature Magnetic Property Measurement System (MPMS) Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers Low-Temperature Magnetic Property Measurement System (MPMS) Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers Low-Temperature Magnetic Property Measurement System (MPMS) Production, (2021-2026) & (Units)
Table 46. Rest of World Based Manufacturers Low-Temperature Magnetic Property Measurement System (MPMS) Production Market Share (2021-2026)
Table 47. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value by Type, (USD Million), 2021 & 2025 & 2032
Table 48. World Low-Temperature Magnetic Property Measurement System (MPMS) Production by Type (2021-2026) & (Units)
Table 49. World Low-Temperature Magnetic Property Measurement System (MPMS) Production by Type (2027-2032) & (Units)
Table 50. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value by Type (2021-2026) & (USD Million)
Table 51. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value by Type (2027-2032) & (USD Million)
Table 52. World Low-Temperature Magnetic Property Measurement System (MPMS) Average Price by Type (2021-2026) & (US$/Unit)
Table 53. World Low-Temperature Magnetic Property Measurement System (MPMS) Average Price by Type (2027-2032) & (US$/Unit)
Table 54. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value by Magnetic Field Intensity, (USD Million), 2021 & 2025 & 2032
Table 55. World Low-Temperature Magnetic Property Measurement System (MPMS) Production by Magnetic Field Intensity (2021-2026) & (Units)
Table 56. World Low-Temperature Magnetic Property Measurement System (MPMS) Production by Magnetic Field Intensity (2027-2032) & (Units)
Table 57. World Low-Temperature Magnetic Property Measurement System (MPMS)

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Production Value by Magnetic Field Intensity (2021-2026) & (USD Million)
Table 58. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value by Magnetic Field Intensity (2027-2032) & (USD Million)
Table 59. World Low-Temperature Magnetic Property Measurement System (MPMS) Average Price by Magnetic Field Intensity (2021-2026) & (US$/Unit)
Table 60. World Low-Temperature Magnetic Property Measurement System (MPMS) Average Price by Magnetic Field Intensity (2027-2032) & (US$/Unit)
Table 61. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value by Level of Automation, (USD Million), 2021 & 2025 & 2032
Table 62. World Low-Temperature Magnetic Property Measurement System (MPMS) Production by Level of Automation (2021-2026) & (Units)
Table 63. World Low-Temperature Magnetic Property Measurement System (MPMS) Production by Level of Automation (2027-2032) & (Units)
Table 64. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value by Level of Automation (2021-2026) & (USD Million)
Table 65. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value by Level of Automation (2027-2032) & (USD Million)
Table 66. World Low-Temperature Magnetic Property Measurement System (MPMS) Average Price by Level of Automation (2021-2026) & (US$/Unit)
Table 67. World Low-Temperature Magnetic Property Measurement System (MPMS) Average Price by Level of Automation (2027-2032) & (US$/Unit)
Table 68. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 69. World Low-Temperature Magnetic Property Measurement System (MPMS) Production by Application (2021-2026) & (Units)
Table 70. World Low-Temperature Magnetic Property Measurement System (MPMS) Production by Application (2027-2032) & (Units)
Table 71. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value by Application (2021-2026) & (USD Million)
Table 72. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value by Application (2027-2032) & (USD Million)
Table 73. World Low-Temperature Magnetic Property Measurement System (MPMS) Average Price by Application (2021-2026) & (US$/Unit)
Table 74. World Low-Temperature Magnetic Property Measurement System (MPMS) Average Price by Application (2027-2032) & (US$/Unit)
Table 75. Quantum Design Basic Information, Manufacturing Base and Competitors
Table 76. Quantum Design Major Business
Table 77. Quantum Design Low-Temperature Magnetic Property Measurement System (MPMS) Product and Services

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Table 78. Quantum Design Low-Temperature Magnetic Property Measurement System (MPMS) Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 79. Quantum Design Recent Developments/Updates
Table 80. Quantum Design Competitive Strengths & Weaknesses
Table 81. Lake Shore Basic Information, Manufacturing Base and Competitors
Table 82. Lake Shore Major Business
Table 83. Lake Shore Low-Temperature Magnetic Property Measurement System (MPMS) Product and Services
Table 84. Lake Shore Low-Temperature Magnetic Property Measurement System (MPMS) Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. Lake Shore Recent Developments/Updates
Table 86. Lake Shore Competitive Strengths & Weaknesses
Table 87. Oxford Instruments Basic Information, Manufacturing Base and Competitors
Table 88. Oxford Instruments Major Business
Table 89. Oxford Instruments Low-Temperature Magnetic Property Measurement System (MPMS) Product and Services
Table 90. Oxford Instruments Low-Temperature Magnetic Property Measurement System (MPMS) Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. Oxford Instruments Recent Developments/Updates
Table 92. Oxford Instruments Competitive Strengths & Weaknesses
Table 93. Beijing East Changing Technology Basic Information, Manufacturing Base and Competitors
Table 94. Beijing East Changing Technology Major Business
Table 95. Beijing East Changing Technology Low-Temperature Magnetic Property Measurement System (MPMS) Product and Services
Table 96. Beijing East Changing Technology Low-Temperature Magnetic Property Measurement System (MPMS) Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Beijing East Changing Technology Recent Developments/Updates
Table 98. Beijing East Changing Technology Competitive Strengths & Weaknesses
Table 99. CSSC Pengli (Nanjing) Technology Basic Information, Manufacturing Base and Competitors
Table 100. CSSC Pengli (Nanjing) Technology Major Business
Table 101. CSSC Pengli (Nanjing) Technology Low-Temperature Magnetic Property Measurement System (MPMS) Product and Services
Table 102. CSSC Pengli (Nanjing) Technology Low-Temperature Magnetic Property

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Measurement System (MPMS) Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. CSSC Pengli (Nanjing) Technology Recent Developments/Updates
Table 104. CSSC Pengli (Nanjing) Technology Competitive Strengths & Weaknesses
Table 105. Global Key Players of Low-Temperature Magnetic Property Measurement System (MPMS) Upstream (Raw Materials)
Table 106. Global Low-Temperature Magnetic Property Measurement System (MPMS) Typical Customers
Table 107. Low-Temperature Magnetic Property Measurement System (MPMS) Typical Distributors

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List Of Figures

LIST OF FIGURES

Figure 1. Low-Temperature Magnetic Property Measurement System (MPMS) Picture
Figure 2. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value: 2021 & 2025 & 2032, (USD Million)
Figure 3. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value and Forecast (2021-2032) & (USD Million)
Figure 4. World Low-Temperature Magnetic Property Measurement System (MPMS) Production (2021-2032) & (Units)
Figure 5. World Low-Temperature Magnetic Property Measurement System (MPMS) Average Price (2021-2032) & (US$/Unit)
Figure 6. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value Market Share by Region (2021-2032)
Figure 7. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Market Share by Region (2021-2032)
Figure 8. North America Low-Temperature Magnetic Property Measurement System (MPMS) Production (2021-2032) & (Units)
Figure 9. Europe Low-Temperature Magnetic Property Measurement System (MPMS) Production (2021-2032) & (Units)
Figure 10. China Low-Temperature Magnetic Property Measurement System (MPMS) Production (2021-2032) & (Units)
Figure 11. Japan Low-Temperature Magnetic Property Measurement System (MPMS) Production (2021-2032) & (Units)
Figure 12. Low-Temperature Magnetic Property Measurement System (MPMS) Market Drivers
Figure 13. Factors Affecting Demand
Figure 14. World Low-Temperature Magnetic Property Measurement System (MPMS) Consumption (2021-2032) & (Units)
Figure 15. World Low-Temperature Magnetic Property Measurement System (MPMS) Consumption Market Share by Region (2021-2032)
Figure 16. United States Low-Temperature Magnetic Property Measurement System (MPMS) Consumption (2021-2032) & (Units)
Figure 17. China Low-Temperature Magnetic Property Measurement System (MPMS) Consumption (2021-2032) & (Units)
Figure 18. Europe Low-Temperature Magnetic Property Measurement System (MPMS) Consumption (2021-2032) & (Units)
Figure 19. Japan Low-Temperature Magnetic Property Measurement System (MPMS)

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Consumption (2021-2032) & (Units)
Figure 20. South Korea Low-Temperature Magnetic Property Measurement System (MPMS) Consumption (2021-2032) & (Units)
Figure 21. ASEAN Low-Temperature Magnetic Property Measurement System (MPMS) Consumption (2021-2032) & (Units)
Figure 22. India Low-Temperature Magnetic Property Measurement System (MPMS) Consumption (2021-2032) & (Units)
Figure 23. Producer Shipments of Low-Temperature Magnetic Property Measurement System (MPMS) by Manufacturer Revenue ($MM) and Market Share (%): 2025
Figure 24. Global Four-firm Concentration Ratios (CR4) for Low-Temperature Magnetic Property Measurement System (MPMS) Markets in 2025
Figure 25. Global Four-firm Concentration Ratios (CR8) for Low-Temperature Magnetic Property Measurement System (MPMS) Markets in 2025
Figure 26. United States VS China: Low-Temperature Magnetic Property Measurement System (MPMS) Production Value Market Share Comparison (2021 & 2025 & 2032)
Figure 27. United States VS China: Low-Temperature Magnetic Property Measurement System (MPMS) Production Market Share Comparison (2021 & 2025 & 2032)
Figure 28. United States VS China: Low-Temperature Magnetic Property Measurement System (MPMS) Consumption Market Share Comparison (2021 & 2025 & 2032)
Figure 29. United States Based Manufacturers Low-Temperature Magnetic Property Measurement System (MPMS) Production Market Share 2025
Figure 30. China Based Manufacturers Low-Temperature Magnetic Property Measurement System (MPMS) Production Market Share 2025
Figure 31. Rest of World Based Manufacturers Low-Temperature Magnetic Property Measurement System (MPMS) Production Market Share 2025
Figure 32. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value by Type, (USD Million), 2021 & 2025 & 2032
Figure 33. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value Market Share by Type in 2025
Figure 34. Liquid Helium Cooled MPMS
Figure 35. 4K Range MPMS
Figure 36. Dilution Refrigerator MPMS
Figure 37. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Market Share by Type (2021-2032)
Figure 38. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value Market Share by Type (2021-2032)
Figure 39. World Low-Temperature Magnetic Property Measurement System (MPMS) Average Price by Type (2021-2032) & (US$/Unit)
Figure 40. World Low-Temperature Magnetic Property Measurement System (MPMS)

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Production Value by Magnetic Field Intensity, (USD Million), 2021 & 2025 & 2032
Figure 41. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value Market Share by Magnetic Field Intensity in 2025
Figure 42. Low Magnetic Field MPMS
Figure 43. Medium Magnetic Field MPMS
Figure 44. High Magnetic Field MPMS
Figure 45. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Market Share by Magnetic Field Intensity (2021-2032)
Figure 46. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value Market Share by Magnetic Field Intensity (2021-2032)
Figure 47. World Low-Temperature Magnetic Property Measurement System (MPMS) Average Price by Magnetic Field Intensity (2021-2032) & (US$/Unit)
Figure 48. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value by Level of Automation, (USD Million), 2021 & 2025 & 2032
Figure 49. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value Market Share by Level of Automation in 2025
Figure 50. Manual Type
Figure 51. Semi-automatic Type
Figure 52. Fully Automatic Type
Figure 53. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Market Share by Level of Automation (2021-2032)
Figure 54. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value Market Share by Level of Automation (2021-2032)
Figure 55. World Low-Temperature Magnetic Property Measurement System (MPMS) Average Price by Level of Automation (2021-2032) & (US$/Unit)
Figure 56. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 57. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value Market Share by Application in 2025
Figure 58. University Laboratories
Figure 59. National Research Institutions
Figure 60. Quantum Computing
Figure 61. Others
Figure 62. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Market Share by Application (2021-2032)
Figure 63. World Low-Temperature Magnetic Property Measurement System (MPMS) Production Value Market Share by Application (2021-2032)
Figure 64. World Low-Temperature Magnetic Property Measurement System (MPMS) Average Price by Application (2021-2032) & (US$/Unit)

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Figure 65. Low-Temperature Magnetic Property Measurement System (MPMS) Industry Chain
Figure 66. Low-Temperature Magnetic Property Measurement System (MPMS) Procurement Model
Figure 67. Low-Temperature Magnetic Property Measurement System (MPMS) Sales Model
Figure 68. Low-Temperature Magnetic Property Measurement System (MPMS) Sales Channels, Direct Sales, and Distribution
Figure 69. Methodology
Figure 70. Research Process and Data Source

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