

Global Metal Matrix Composites (MMC) Market Growth 2025-2031

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Abstracts

The global Metal Matrix Composites (MMC) market size is predicted to grow from US\$ 495 million in 2025 to US\$ 614 million in 2031; it is expected to grow at a CAGR of 3.6% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Metal Matrix Composites (MMC) are engineered materials composed of a metal matrix reinforced with secondary phases such as ceramic particles, fibers, or whiskers. These composites exhibit superior mechanical, thermal, and physical properties compared to conventional metals, offering advantages such as high strength-to-weight ratio, improved wear resistance, thermal stability, and damping characteristics. MMCs find applications in aerospace, automotive, defense, electronics, and other industries where lightweight, high-performance materials are required.

Market Drivers for Metal Matrix Composites (MMC):

Lightweighting and Fuel Efficiency: The demand for lightweight materials to improve fuel efficiency, reduce emissions, and enhance performance in industries such as aerospace, automotive, and transportation is driving the adoption of MMCs due to their high strength-to-weight ratio and stiffness properties.

Enhanced Mechanical Properties: MMCs offer superior mechanical properties, including high tensile strength, stiffness, fatigue resistance, and wear properties, making them suitable for applications requiring high-performance materials that can withstand

extreme conditions and loads.

Thermal Management and Heat Dissipation: The thermal conductivity and heat dissipation capabilities of MMCs make them ideal for applications where thermal management is crucial, such as in electronics, power generation, and thermal control systems.

Corrosion Resistance and Durability: MMCs exhibit excellent corrosion resistance, chemical stability, and durability, making them suitable for harsh environments, marine applications, chemical processing, and infrastructure exposed to corrosive conditions.

Customization and Tailored Properties: The ability to tailor the properties of MMCs by selecting specific reinforcement materials, particle sizes, volume fractions, and processing techniques allows manufacturers to customize materials for specific applications, providing versatility and performance optimization.

Market Challenges for Metal Matrix Composites (MMC):

Cost of Production: The cost of producing MMCs, particularly those incorporating high-performance reinforcement materials, advanced manufacturing processes, and quality control measures, can be a significant challenge, impacting the overall cost-effectiveness and adoption of these materials.

Processing and Manufacturing Complexity: The complex processing techniques, specialized equipment, and stringent control requirements involved in manufacturing MMCs can pose challenges in achieving consistent quality, uniform dispersion of reinforcements, and defect-free components.

Reinforcement-Matrix Interface Compatibility: Ensuring good bonding and compatibility between the metal matrix and the reinforcement phases is crucial for the mechanical performance and reliability of MMCs, requiring careful selection of materials, surface treatments, and processing conditions.

Scalability and Mass Production: Scaling up MMC production to meet industrial demand, ensuring reproducibility, and maintaining batch-to-batch consistency while achieving economies of scale can be challenging, particularly for niche applications and specialized industries.

Design and Simulation Complexity: Designing components and structures using MMCs

requires advanced modeling, simulation, and optimization techniques to account for the anisotropic properties, reinforcement effects, and material behavior under different loading conditions, posing challenges in design validation and performance prediction.

LP Information, Inc. (LPI) ' newest research report, the "Metal Matrix Composites (MMC) Industry Forecast" looks at past sales and reviews total world Metal Matrix Composites (MMC) sales in 2024, providing a comprehensive analysis by region and market sector of projected Metal Matrix Composites (MMC) sales for 2025 through 2031. With Metal Matrix Composites (MMC) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Metal Matrix Composites (MMC) industry.

This Insight Report provides a comprehensive analysis of the global Metal Matrix Composites (MMC) landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Metal Matrix Composites (MMC) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Metal Matrix Composites (MMC) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Metal Matrix Composites (MMC) and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Metal Matrix Composites (MMC).

This report presents a comprehensive overview, market shares, and growth opportunities of Metal Matrix Composites (MMC) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Aluminum MMC

Magnesium MMC

Others

Segmentation by Application:

Aerospace & Defense

Automotive

Industrial

Electronics

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Materion

Japan Fine Ceramics Co.,Ltd.

3M

Plansee

CPS Technologies Corporation

CeramTec GmbH

Loukus Tech

Calix Ceramic Solutions

DWA Aluminum Composites USA, Inc.

GKN PLC

Touchstone

Denka

Japan Fine Steel

Key Questions Addressed in this Report

What is the 10-year outlook for the global Metal Matrix Composites (MMC) market?

What factors are driving Metal Matrix Composites (MMC) market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Metal Matrix Composites (MMC) market opportunities vary by end market size?

How does Metal Matrix Composites (MMC) break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Metal Matrix Composites (MMC) Annual Sales 2020-2031
 - 2.1.2 World Current & Future Analysis for Metal Matrix Composites (MMC) by Geographic Region, 2020, 2024 & 2031
 - 2.1.3 World Current & Future Analysis for Metal Matrix Composites (MMC) by Country/Region, 2020, 2024 & 2031
- 2.2 Metal Matrix Composites (MMC) Segment by Type
 - 2.2.1 Aluminum MMC
 - 2.2.2 Magnesium MMC
 - 2.2.3 Others
- 2.3 Metal Matrix Composites (MMC) Sales by Type
 - 2.3.1 Global Metal Matrix Composites (MMC) Sales Market Share by Type (2020-2025)
 - 2.3.2 Global Metal Matrix Composites (MMC) Revenue and Market Share by Type (2020-2025)
 - 2.3.3 Global Metal Matrix Composites (MMC) Sale Price by Type (2020-2025)
- 2.4 Metal Matrix Composites (MMC) Segment by Application
 - 2.4.1 Aerospace & Defense
 - 2.4.2 Automotive
 - 2.4.3 Industrial
 - 2.4.4 Electronics
 - 2.4.5 Others
- 2.5 Metal Matrix Composites (MMC) Sales by Application
 - 2.5.1 Global Metal Matrix Composites (MMC) Sale Market Share by Application

(2020-2025)

2.5.2 Global Metal Matrix Composites (MMC) Revenue and Market Share by Application (2020-2025)

2.5.3 Global Metal Matrix Composites (MMC) Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global Metal Matrix Composites (MMC) Breakdown Data by Company

3.1.1 Global Metal Matrix Composites (MMC) Annual Sales by Company (2020-2025)

3.1.2 Global Metal Matrix Composites (MMC) Sales Market Share by Company (2020-2025)

3.2 Global Metal Matrix Composites (MMC) Annual Revenue by Company (2020-2025)

3.2.1 Global Metal Matrix Composites (MMC) Revenue by Company (2020-2025)

3.2.2 Global Metal Matrix Composites (MMC) Revenue Market Share by Company (2020-2025)

3.3 Global Metal Matrix Composites (MMC) Sale Price by Company

3.4 Key Manufacturers Metal Matrix Composites (MMC) Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Metal Matrix Composites (MMC) Product Location Distribution

3.4.2 Players Metal Matrix Composites (MMC) Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR METAL MATRIX COMPOSITES (MMC) BY GEOGRAPHIC REGION

4.1 World Historic Metal Matrix Composites (MMC) Market Size by Geographic Region (2020-2025)

4.1.1 Global Metal Matrix Composites (MMC) Annual Sales by Geographic Region (2020-2025)

4.1.2 Global Metal Matrix Composites (MMC) Annual Revenue by Geographic Region (2020-2025)

4.2 World Historic Metal Matrix Composites (MMC) Market Size by Country/Region (2020-2025)

4.2.1 Global Metal Matrix Composites (MMC) Annual Sales by Country/Region

(2020-2025)

4.2.2 Global Metal Matrix Composites (MMC) Annual Revenue by Country/Region

(2020-2025)

4.3 Americas Metal Matrix Composites (MMC) Sales Growth

4.4 APAC Metal Matrix Composites (MMC) Sales Growth

4.5 Europe Metal Matrix Composites (MMC) Sales Growth

4.6 Middle East & Africa Metal Matrix Composites (MMC) Sales Growth

5 AMERICAS

5.1 Americas Metal Matrix Composites (MMC) Sales by Country

5.1.1 Americas Metal Matrix Composites (MMC) Sales by Country (2020-2025)

5.1.2 Americas Metal Matrix Composites (MMC) Revenue by Country (2020-2025)

5.2 Americas Metal Matrix Composites (MMC) Sales by Type (2020-2025)

5.3 Americas Metal Matrix Composites (MMC) Sales by Application (2020-2025)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Metal Matrix Composites (MMC) Sales by Region

6.1.1 APAC Metal Matrix Composites (MMC) Sales by Region (2020-2025)

6.1.2 APAC Metal Matrix Composites (MMC) Revenue by Region (2020-2025)

6.2 APAC Metal Matrix Composites (MMC) Sales by Type (2020-2025)

6.3 APAC Metal Matrix Composites (MMC) Sales by Application (2020-2025)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Metal Matrix Composites (MMC) by Country

7.1.1 Europe Metal Matrix Composites (MMC) Sales by Country (2020-2025)

- 7.1.2 Europe Metal Matrix Composites (MMC) Revenue by Country (2020-2025)
- 7.2 Europe Metal Matrix Composites (MMC) Sales by Type (2020-2025)
- 7.3 Europe Metal Matrix Composites (MMC) Sales by Application (2020-2025)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Metal Matrix Composites (MMC) by Country
 - 8.1.1 Middle East & Africa Metal Matrix Composites (MMC) Sales by Country (2020-2025)
 - 8.1.2 Middle East & Africa Metal Matrix Composites (MMC) Revenue by Country (2020-2025)
- 8.2 Middle East & Africa Metal Matrix Composites (MMC) Sales by Type (2020-2025)
- 8.3 Middle East & Africa Metal Matrix Composites (MMC) Sales by Application (2020-2025)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Metal Matrix Composites (MMC)
- 10.3 Manufacturing Process Analysis of Metal Matrix Composites (MMC)
- 10.4 Industry Chain Structure of Metal Matrix Composites (MMC)

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Metal Matrix Composites (MMC) Distributors

11.3 Metal Matrix Composites (MMC) Customer

12 WORLD FORECAST REVIEW FOR METAL MATRIX COMPOSITES (MMC) BY GEOGRAPHIC REGION

12.1 Global Metal Matrix Composites (MMC) Market Size Forecast by Region

12.1.1 Global Metal Matrix Composites (MMC) Forecast by Region (2026-2031)

12.1.2 Global Metal Matrix Composites (MMC) Annual Revenue Forecast by Region (2026-2031)

12.2 Americas Forecast by Country (2026-2031)

12.3 APAC Forecast by Region (2026-2031)

12.4 Europe Forecast by Country (2026-2031)

12.5 Middle East & Africa Forecast by Country (2026-2031)

12.6 Global Metal Matrix Composites (MMC) Forecast by Type (2026-2031)

12.7 Global Metal Matrix Composites (MMC) Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 Materion

13.1.1 Materion Company Information

13.1.2 Materion Metal Matrix Composites (MMC) Product Portfolios and Specifications

13.1.3 Materion Metal Matrix Composites (MMC) Sales, Revenue, Price and Gross Margin (2020-2025)

13.1.4 Materion Main Business Overview

13.1.5 Materion Latest Developments

13.2 Japan Fine Ceramics Co.,Ltd.

13.2.1 Japan Fine Ceramics Co.,Ltd. Company Information

13.2.2 Japan Fine Ceramics Co.,Ltd. Metal Matrix Composites (MMC) Product Portfolios and Specifications

13.2.3 Japan Fine Ceramics Co.,Ltd. Metal Matrix Composites (MMC) Sales, Revenue, Price and Gross Margin (2020-2025)

13.2.4 Japan Fine Ceramics Co.,Ltd. Main Business Overview

13.2.5 Japan Fine Ceramics Co.,Ltd. Latest Developments

13.3 3M

- 13.3.1 3M Company Information
- 13.3.2 3M Metal Matrix Composites (MMC) Product Portfolios and Specifications
- 13.3.3 3M Metal Matrix Composites (MMC) Sales, Revenue, Price and Gross Margin (2020-2025)
- 13.3.4 3M Main Business Overview
- 13.3.5 3M Latest Developments
- 13.4 Plansee
 - 13.4.1 Plansee Company Information
 - 13.4.2 Plansee Metal Matrix Composites (MMC) Product Portfolios and Specifications
 - 13.4.3 Plansee Metal Matrix Composites (MMC) Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.4.4 Plansee Main Business Overview
 - 13.4.5 Plansee Latest Developments
- 13.5 CPS Technologies Corporation
 - 13.5.1 CPS Technologies Corporation Company Information
 - 13.5.2 CPS Technologies Corporation Metal Matrix Composites (MMC) Product Portfolios and Specifications
 - 13.5.3 CPS Technologies Corporation Metal Matrix Composites (MMC) Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.5.4 CPS Technologies Corporation Main Business Overview
 - 13.5.5 CPS Technologies Corporation Latest Developments
- 13.6 CeramTec GmbH
 - 13.6.1 CeramTec GmbH Company Information
 - 13.6.2 CeramTec GmbH Metal Matrix Composites (MMC) Product Portfolios and Specifications
 - 13.6.3 CeramTec GmbH Metal Matrix Composites (MMC) Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.6.4 CeramTec GmbH Main Business Overview
 - 13.6.5 CeramTec GmbH Latest Developments
- 13.7 Loukus Tech
 - 13.7.1 Loukus Tech Company Information
 - 13.7.2 Loukus Tech Metal Matrix Composites (MMC) Product Portfolios and Specifications
 - 13.7.3 Loukus Tech Metal Matrix Composites (MMC) Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.7.4 Loukus Tech Main Business Overview
 - 13.7.5 Loukus Tech Latest Developments
- 13.8 Calix Ceramic Solutions
 - 13.8.1 Calix Ceramic Solutions Company Information

13.8.2 Calix Ceramic Solutions Metal Matrix Composites (MMC) Product Portfolios and Specifications

13.8.3 Calix Ceramic Solutions Metal Matrix Composites (MMC) Sales, Revenue, Price and Gross Margin (2020-2025)

13.8.4 Calix Ceramic Solutions Main Business Overview

13.8.5 Calix Ceramic Solutions Latest Developments

13.9 DWA Aluminum Composites USA, Inc.

13.9.1 DWA Aluminum Composites USA, Inc. Company Information

13.9.2 DWA Aluminum Composites USA, Inc. Metal Matrix Composites (MMC) Product Portfolios and Specifications

13.9.3 DWA Aluminum Composites USA, Inc. Metal Matrix Composites (MMC) Sales, Revenue, Price and Gross Margin (2020-2025)

13.9.4 DWA Aluminum Composites USA, Inc. Main Business Overview

13.9.5 DWA Aluminum Composites USA, Inc. Latest Developments

13.10 GKN PLC

13.10.1 GKN PLC Company Information

13.10.2 GKN PLC Metal Matrix Composites (MMC) Product Portfolios and Specifications

13.10.3 GKN PLC Metal Matrix Composites (MMC) Sales, Revenue, Price and Gross Margin (2020-2025)

13.10.4 GKN PLC Main Business Overview

13.10.5 GKN PLC Latest Developments

13.11 Touchstone

13.11.1 Touchstone Company Information

13.11.2 Touchstone Metal Matrix Composites (MMC) Product Portfolios and Specifications

13.11.3 Touchstone Metal Matrix Composites (MMC) Sales, Revenue, Price and Gross Margin (2020-2025)

13.11.4 Touchstone Main Business Overview

13.11.5 Touchstone Latest Developments

13.12 Denka

13.12.1 Denka Company Information

13.12.2 Denka Metal Matrix Composites (MMC) Product Portfolios and Specifications

13.12.3 Denka Metal Matrix Composites (MMC) Sales, Revenue, Price and Gross Margin (2020-2025)

13.12.4 Denka Main Business Overview

13.12.5 Denka Latest Developments

13.13 Japan Fine Steel

13.13.1 Japan Fine Steel Company Information

13.13.2 Japan Fine Steel Metal Matrix Composites (MMC) Product Portfolios and Specifications

13.13.3 Japan Fine Steel Metal Matrix Composites (MMC) Sales, Revenue, Price and Gross Margin (2020-2025)

13.13.4 Japan Fine Steel Main Business Overview

13.13.5 Japan Fine Steel Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Metal Matrix Composites (MMC) Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & (\$ millions)

Table 2. Metal Matrix Composites (MMC) Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ millions)

Table 3. Major Players of Aluminum MMC

Table 4. Major Players of Magnesium MMC

Table 5. Major Players of Others

Table 6. Global Metal Matrix Composites (MMC) Sales by Type (2020-2025) & (K MT)

Table 7. Global Metal Matrix Composites (MMC) Sales Market Share by Type (2020-2025)

Table 8. Global Metal Matrix Composites (MMC) Revenue by Type (2020-2025) & (\$ million)

Table 9. Global Metal Matrix Composites (MMC) Revenue Market Share by Type (2020-2025)

Table 10. Global Metal Matrix Composites (MMC) Sale Price by Type (2020-2025) & (USD/MT)

Table 11. Global Metal Matrix Composites (MMC) Sale by Application (2020-2025) & (K MT)

Table 12. Global Metal Matrix Composites (MMC) Sale Market Share by Application (2020-2025)

Table 13. Global Metal Matrix Composites (MMC) Revenue by Application (2020-2025) & (\$ million)

Table 14. Global Metal Matrix Composites (MMC) Revenue Market Share by Application (2020-2025)

Table 15. Global Metal Matrix Composites (MMC) Sale Price by Application (2020-2025) & (USD/MT)

Table 16. Global Metal Matrix Composites (MMC) Sales by Company (2020-2025) & (K MT)

Table 17. Global Metal Matrix Composites (MMC) Sales Market Share by Company (2020-2025)

Table 18. Global Metal Matrix Composites (MMC) Revenue by Company (2020-2025) & (\$ millions)

Table 19. Global Metal Matrix Composites (MMC) Revenue Market Share by Company (2020-2025)

Table 20. Global Metal Matrix Composites (MMC) Sale Price by Company (2020-2025)

& (USD/MT)

Table 21. Key Manufacturers Metal Matrix Composites (MMC) Producing Area
Distribution and Sales Area

Table 22. Players Metal Matrix Composites (MMC) Products Offered

Table 23. Metal Matrix Composites (MMC) Concentration Ratio (CR3, CR5 and CR10)
& (2023-2025)

Table 24. New Products and Potential Entrants

Table 25. Market M&A Activity & Strategy

Table 26. Global Metal Matrix Composites (MMC) Sales by Geographic Region
(2020-2025) & (K MT)

Table 27. Global Metal Matrix Composites (MMC) Sales Market Share Geographic
Region (2020-2025)

Table 28. Global Metal Matrix Composites (MMC) Revenue by Geographic Region
(2020-2025) & (\$ millions)

Table 29. Global Metal Matrix Composites (MMC) Revenue Market Share by
Geographic Region (2020-2025)

Table 30. Global Metal Matrix Composites (MMC) Sales by Country/Region
(2020-2025) & (K MT)

Table 31. Global Metal Matrix Composites (MMC) Sales Market Share by
Country/Region (2020-2025)

Table 32. Global Metal Matrix Composites (MMC) Revenue by Country/Region
(2020-2025) & (\$ millions)

Table 33. Global Metal Matrix Composites (MMC) Revenue Market Share by
Country/Region (2020-2025)

Table 34. Americas Metal Matrix Composites (MMC) Sales by Country (2020-2025) &
(K MT)

Table 35. Americas Metal Matrix Composites (MMC) Sales Market Share by Country
(2020-2025)

Table 36. Americas Metal Matrix Composites (MMC) Revenue by Country (2020-2025)
& (\$ millions)

Table 37. Americas Metal Matrix Composites (MMC) Sales by Type (2020-2025) & (K
MT)

Table 38. Americas Metal Matrix Composites (MMC) Sales by Application (2020-2025)
& (K MT)

Table 39. APAC Metal Matrix Composites (MMC) Sales by Region (2020-2025) & (K
MT)

Table 40. APAC Metal Matrix Composites (MMC) Sales Market Share by Region
(2020-2025)

Table 41. APAC Metal Matrix Composites (MMC) Revenue by Region (2020-2025) & (\$

millions)

Table 42. APAC Metal Matrix Composites (MMC) Sales by Type (2020-2025) & (K MT)

Table 43. APAC Metal Matrix Composites (MMC) Sales by Application (2020-2025) & (K MT)

Table 44. Europe Metal Matrix Composites (MMC) Sales by Country (2020-2025) & (K MT)

Table 45. Europe Metal Matrix Composites (MMC) Revenue by Country (2020-2025) & (\$ millions)

Table 46. Europe Metal Matrix Composites (MMC) Sales by Type (2020-2025) & (K MT)

Table 47. Europe Metal Matrix Composites (MMC) Sales by Application (2020-2025) & (K MT)

Table 48. Middle East & Africa Metal Matrix Composites (MMC) Sales by Country (2020-2025) & (K MT)

Table 49. Middle East & Africa Metal Matrix Composites (MMC) Revenue Market Share by Country (2020-2025)

Table 50. Middle East & Africa Metal Matrix Composites (MMC) Sales by Type (2020-2025) & (K MT)

Table 51. Middle East & Africa Metal Matrix Composites (MMC) Sales by Application (2020-2025) & (K MT)

Table 52. Key Market Drivers & Growth Opportunities of Metal Matrix Composites (MMC)

Table 53. Key Market Challenges & Risks of Metal Matrix Composites (MMC)

Table 54. Key Industry Trends of Metal Matrix Composites (MMC)

Table 55. Metal Matrix Composites (MMC) Raw Material

Table 56. Key Suppliers of Raw Materials

Table 57. Metal Matrix Composites (MMC) Distributors List

Table 58. Metal Matrix Composites (MMC) Customer List

Table 59. Global Metal Matrix Composites (MMC) Sales Forecast by Region (2026-2031) & (K MT)

Table 60. Global Metal Matrix Composites (MMC) Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 61. Americas Metal Matrix Composites (MMC) Sales Forecast by Country (2026-2031) & (K MT)

Table 62. Americas Metal Matrix Composites (MMC) Annual Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 63. APAC Metal Matrix Composites (MMC) Sales Forecast by Region (2026-2031) & (K MT)

Table 64. APAC Metal Matrix Composites (MMC) Annual Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 65. Europe Metal Matrix Composites (MMC) Sales Forecast by Country (2026-2031) & (K MT)

Table 66. Europe Metal Matrix Composites (MMC) Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 67. Middle East & Africa Metal Matrix Composites (MMC) Sales Forecast by Country (2026-2031) & (K MT)

Table 68. Middle East & Africa Metal Matrix Composites (MMC) Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 69. Global Metal Matrix Composites (MMC) Sales Forecast by Type (2026-2031) & (K MT)

Table 70. Global Metal Matrix Composites (MMC) Revenue Forecast by Type (2026-2031) & (\$ millions)

Table 71. Global Metal Matrix Composites (MMC) Sales Forecast by Application (2026-2031) & (K MT)

Table 72. Global Metal Matrix Composites (MMC) Revenue Forecast by Application (2026-2031) & (\$ millions)

Table 73. Materion Basic Information, Metal Matrix Composites (MMC) Manufacturing Base, Sales Area and Its Competitors

Table 74. Materion Metal Matrix Composites (MMC) Product Portfolios and Specifications

Table 75. Materion Metal Matrix Composites (MMC) Sales (K MT), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2020-2025)

Table 76. Materion Main Business

Table 77. Materion Latest Developments

Table 78. Japan Fine Ceramics Co.,Ltd. Basic Information, Metal Matrix Composites (MMC) Manufacturing Base, Sales Area and Its Competitors

Table 79. Japan Fine Ceramics Co.,Ltd. Metal Matrix Composites (MMC) Product Portfolios and Specifications

Table 80. Japan Fine Ceramics Co.,Ltd. Metal Matrix Composites (MMC) Sales (K MT), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2020-2025)

Table 81. Japan Fine Ceramics Co.,Ltd. Main Business

Table 82. Japan Fine Ceramics Co.,Ltd. Latest Developments

Table 83. 3M Basic Information, Metal Matrix Composites (MMC) Manufacturing Base, Sales Area and Its Competitors

Table 84. 3M Metal Matrix Composites (MMC) Product Portfolios and Specifications

Table 85. 3M Metal Matrix Composites (MMC) Sales (K MT), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2020-2025)

Table 86. 3M Main Business

Table 87. 3M Latest Developments

Table 88. Plansee Basic Information, Metal Matrix Composites (MMC) Manufacturing Base, Sales Area and Its Competitors

Table 89. Plansee Metal Matrix Composites (MMC) Product Portfolios and Specifications

Table 90. Plansee Metal Matrix Composites (MMC) Sales (K MT), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2020-2025)

Table 91. Plansee Main Business

Table 92. Plansee Latest Developments

Table 93. CPS Technologies Corporation Basic Information, Metal Matrix Composites (MMC) Manufacturing Base, Sales Area and Its Competitors

Table 94. CPS Technologies Corporation Metal Matrix Composites (MMC) Product Portfolios and Specifications

Table 95. CPS Technologies Corporation Metal Matrix Composites (MMC) Sales (K MT), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2020-2025)

Table 96. CPS Technologies Corporation Main Business

Table 97. CPS Technologies Corporation Latest Developments

Table 98. CeramTec GmbH Basic Information, Metal Matrix Composites (MMC) Manufacturing Base, Sales Area and Its Competitors

Table 99. CeramTec GmbH Metal Matrix Composites (MMC) Product Portfolios and Specifications

Table 100. CeramTec GmbH Metal Matrix Composites (MMC) Sales (K MT), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2020-2025)

Table 101. CeramTec GmbH Main Business

Table 102. CeramTec GmbH Latest Developments

Table 103. Loukus Tech Basic Information, Metal Matrix Composites (MMC) Manufacturing Base, Sales Area and Its Competitors

Table 104. Loukus Tech Metal Matrix Composites (MMC) Product Portfolios and Specifications

Table 105. Loukus Tech Metal Matrix Composites (MMC) Sales (K MT), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2020-2025)

Table 106. Loukus Tech Main Business

Table 107. Loukus Tech Latest Developments

Table 108. Calix Ceramic Solutions Basic Information, Metal Matrix Composites (MMC) Manufacturing Base, Sales Area and Its Competitors

Table 109. Calix Ceramic Solutions Metal Matrix Composites (MMC) Product Portfolios and Specifications

Table 110. Calix Ceramic Solutions Metal Matrix Composites (MMC) Sales (K MT), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2020-2025)

Table 111. Calix Ceramic Solutions Main Business

Table 112. Calix Ceramic Solutions Latest Developments

Table 113. DWA Aluminum Composites USA, Inc. Basic Information, Metal Matrix Composites (MMC) Manufacturing Base, Sales Area and Its Competitors

Table 114. DWA Aluminum Composites USA, Inc. Metal Matrix Composites (MMC) Product Portfolios and Specifications

Table 115. DWA Aluminum Composites USA, Inc. Metal Matrix Composites (MMC) Sales (K MT), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2020-2025)

Table 116. DWA Aluminum Composites USA, Inc. Main Business

Table 117. DWA Aluminum Composites USA, Inc. Latest Developments

Table 118. GKN PLC Basic Information, Metal Matrix Composites (MMC) Manufacturing Base, Sales Area and Its Competitors

Table 119. GKN PLC Metal Matrix Composites (MMC) Product Portfolios and Specifications

Table 120. GKN PLC Metal Matrix Composites (MMC) Sales (K MT), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2020-2025)

Table 121. GKN PLC Main Business

Table 122. GKN PLC Latest Developments

Table 123. Touchstone Basic Information, Metal Matrix Composites (MMC) Manufacturing Base, Sales Area and Its Competitors

Table 124. Touchstone Metal Matrix Composites (MMC) Product Portfolios and Specifications

Table 125. Touchstone Metal Matrix Composites (MMC) Sales (K MT), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2020-2025)

Table 126. Touchstone Main Business

Table 127. Touchstone Latest Developments

Table 128. Denka Basic Information, Metal Matrix Composites (MMC) Manufacturing Base, Sales Area and Its Competitors

Table 129. Denka Metal Matrix Composites (MMC) Product Portfolios and Specifications

Table 130. Denka Metal Matrix Composites (MMC) Sales (K MT), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2020-2025)

Table 131. Denka Main Business

Table 132. Denka Latest Developments

Table 133. Japan Fine Steel Basic Information, Metal Matrix Composites (MMC) Manufacturing Base, Sales Area and Its Competitors

Table 134. Japan Fine Steel Metal Matrix Composites (MMC) Product Portfolios and Specifications

Table 135. Japan Fine Steel Metal Matrix Composites (MMC) Sales (K MT), Revenue (\$ Million), Price (USD/MT) and Gross Margin (2020-2025)

Table 136. Japan Fine Steel Main Business

Table 137. Japan Fine Steel Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Metal Matrix Composites (MMC)
- Figure 2. Metal Matrix Composites (MMC) Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Metal Matrix Composites (MMC) Sales Growth Rate 2020-2031 (K MT)
- Figure 7. Global Metal Matrix Composites (MMC) Revenue Growth Rate 2020-2031 (\$ millions)
- Figure 8. Metal Matrix Composites (MMC) Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Figure 9. Metal Matrix Composites (MMC) Sales Market Share by Country/Region (2024)
- Figure 10. Metal Matrix Composites (MMC) Sales Market Share by Country/Region (2020, 2024 & 2031)
- Figure 11. Product Picture of Aluminum MMC
- Figure 12. Product Picture of Magnesium MMC
- Figure 13. Product Picture of Others
- Figure 14. Global Metal Matrix Composites (MMC) Sales Market Share by Type in 2025
- Figure 15. Global Metal Matrix Composites (MMC) Revenue Market Share by Type (2020-2025)
- Figure 16. Metal Matrix Composites (MMC) Consumed in Aerospace & Defense
- Figure 17. Global Metal Matrix Composites (MMC) Market: Aerospace & Defense (2020-2025) & (K MT)
- Figure 18. Metal Matrix Composites (MMC) Consumed in Automotive
- Figure 19. Global Metal Matrix Composites (MMC) Market: Automotive (2020-2025) & (K MT)
- Figure 20. Metal Matrix Composites (MMC) Consumed in Industrial
- Figure 21. Global Metal Matrix Composites (MMC) Market: Industrial (2020-2025) & (K MT)
- Figure 22. Metal Matrix Composites (MMC) Consumed in Electronics
- Figure 23. Global Metal Matrix Composites (MMC) Market: Electronics (2020-2025) & (K MT)
- Figure 24. Metal Matrix Composites (MMC) Consumed in Others
- Figure 25. Global Metal Matrix Composites (MMC) Market: Others (2020-2025) & (K MT)

Figure 26. Global Metal Matrix Composites (MMC) Sale Market Share by Application (2024)

Figure 27. Global Metal Matrix Composites (MMC) Revenue Market Share by Application in 2025

Figure 28. Metal Matrix Composites (MMC) Sales by Company in 2025 (K MT)

Figure 29. Global Metal Matrix Composites (MMC) Sales Market Share by Company in 2025

Figure 30. Metal Matrix Composites (MMC) Revenue by Company in 2025 (\$ millions)

Figure 31. Global Metal Matrix Composites (MMC) Revenue Market Share by Company in 2025

Figure 32. Global Metal Matrix Composites (MMC) Sales Market Share by Geographic Region (2020-2025)

Figure 33. Global Metal Matrix Composites (MMC) Revenue Market Share by Geographic Region in 2025

Figure 34. Americas Metal Matrix Composites (MMC) Sales 2020-2025 (K MT)

Figure 35. Americas Metal Matrix Composites (MMC) Revenue 2020-2025 (\$ millions)

Figure 36. APAC Metal Matrix Composites (MMC) Sales 2020-2025 (K MT)

Figure 37. APAC Metal Matrix Composites (MMC) Revenue 2020-2025 (\$ millions)

Figure 38. Europe Metal Matrix Composites (MMC) Sales 2020-2025 (K MT)

Figure 39. Europe Metal Matrix Composites (MMC) Revenue 2020-2025 (\$ millions)

Figure 40. Middle East & Africa Metal Matrix Composites (MMC) Sales 2020-2025 (K MT)

Figure 41. Middle East & Africa Metal Matrix Composites (MMC) Revenue 2020-2025 (\$ millions)

Figure 42. Americas Metal Matrix Composites (MMC) Sales Market Share by Country in 2025

Figure 43. Americas Metal Matrix Composites (MMC) Revenue Market Share by Country (2020-2025)

Figure 44. Americas Metal Matrix Composites (MMC) Sales Market Share by Type (2020-2025)

Figure 45. Americas Metal Matrix Composites (MMC) Sales Market Share by Application (2020-2025)

Figure 46. United States Metal Matrix Composites (MMC) Revenue Growth 2020-2025 (\$ millions)

Figure 47. Canada Metal Matrix Composites (MMC) Revenue Growth 2020-2025 (\$ millions)

Figure 48. Mexico Metal Matrix Composites (MMC) Revenue Growth 2020-2025 (\$ millions)

Figure 49. Brazil Metal Matrix Composites (MMC) Revenue Growth 2020-2025 (\$

millions)

Figure 50. APAC Metal Matrix Composites (MMC) Sales Market Share by Region in 2025

Figure 51. APAC Metal Matrix Composites (MMC) Revenue Market Share by Region (2020-2025)

Figure 52. APAC Metal Matrix Composites (MMC) Sales Market Share by Type (2020-2025)

Figure 53. APAC Metal Matrix Composites (MMC) Sales Market Share by Application (2020-2025)

Figure 54. China Metal Matrix Composites (MMC) Revenue Growth 2020-2025 (\$ millions)

Figure 55. Japan Metal Matrix Composites (MMC) Revenue Growth 2020-2025 (\$ millions)

Figure 56. South Korea Metal Matrix Composites (MMC) Revenue Growth 2020-2025 (\$ millions)

Figure 57. Southeast Asia Metal Matrix Composites (MMC) Revenue Growth 2020-2025 (\$ millions)

Figure 58. India Metal Matrix Composites (MMC) Revenue Growth 2020-2025 (\$ millions)

Figure 59. Australia Metal Matrix Composites (MMC) Revenue Growth 2020-2025 (\$ millions)

Figure 60. China Taiwan Metal Matrix Composites (MMC) Revenue Growth 2020-2025 (\$ millions)

Figure 61. Europe Metal Matrix Composites (MMC) Sales Market Share by Country in 2025

Figure 62. Europe Metal Matrix Composites (MMC) Revenue Market Share by Country (2020-2025)

Figure 63. Europe Metal Matrix Composites (MMC) Sales Market Share by Type (2020-2025)

Figure 64. Europe Metal Matrix Composites (MMC) Sales Market Share by Application (2020-2025)

Figure 65. Germany Metal Matrix Composites (MMC) Revenue Growth 2020-2025 (\$ millions)

Figure 66. France Metal Matrix Composites (MMC) Revenue Growth 2020-2025 (\$ millions)

Figure 67. UK Metal Matrix Composites (MMC) Revenue Growth 2020-2025 (\$ millions)

Figure 68. Italy Metal Matrix Composites (MMC) Revenue Growth 2020-2025 (\$ millions)

Figure 69. Russia Metal Matrix Composites (MMC) Revenue Growth 2020-2025 (\$

millions)

Figure 70. Middle East & Africa Metal Matrix Composites (MMC) Sales Market Share by Country (2020-2025)

Figure 71. Middle East & Africa Metal Matrix Composites (MMC) Sales Market Share by Type (2020-2025)

Figure 72. Middle East & Africa Metal Matrix Composites (MMC) Sales Market Share by Application (2020-2025)

Figure 73. Egypt Metal Matrix Composites (MMC) Revenue Growth 2020-2025 (\$ millions)

Figure 74. South Africa Metal Matrix Composites (MMC) Revenue Growth 2020-2025 (\$ millions)

Figure 75. Israel Metal Matrix Composites (MMC) Revenue Growth 2020-2025 (\$ millions)

Figure 76. Turkey Metal Matrix Composites (MMC) Revenue Growth 2020-2025 (\$ millions)

Figure 77. GCC Countries Metal Matrix Composites (MMC) Revenue Growth 2020-2025 (\$ millions)

Figure 78. Manufacturing Cost Structure Analysis of Metal Matrix Composites (MMC) in 2025

Figure 79. Manufacturing Process Analysis of Metal Matrix Composites (MMC)

Figure 80. Industry Chain Structure of Metal Matrix Composites (MMC)

Figure 81. Channels of Distribution

Figure 82. Global Metal Matrix Composites (MMC) Sales Market Forecast by Region (2026-2031)

Figure 83. Global Metal Matrix Composites (MMC) Revenue Market Share Forecast by Region (2026-2031)

Figure 84. Global Metal Matrix Composites (MMC) Sales Market Share Forecast by Type (2026-2031)

Figure 85. Global Metal Matrix Composites (MMC) Revenue Market Share Forecast by Type (2026-2031)

Figure 86. Global Metal Matrix Composites (MMC) Sales Market Share Forecast by Application (2026-2031)

Figure 87. Global Metal Matrix Composites (MMC) Revenue Market Share Forecast by Application (2026-2031)

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