

Global TEM Holders Market Growth 2025-2031

<https://marketpublishers.com/r/G1D716034475EN.html>

Date: May 2025

Pages: 119

Price: US\$ 3,660.00 (Single User License)

ID: G1D716034475EN

Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

The global FIB-SEM System market size is predicted to grow from US\$ 644 million in 2025 to US\$ 910 million in 2031; it is expected to grow at a CAGR of 5.9% from 2025 to 2031.

The FIB-SEM system is an electron microscope system that integrates focused electron beams and scanning ion beams. Focused ion beams can be used for micro processing of samples, scanning electron beams can be used for micro imaging and 'two-dimensional' characterization analysis of sample surface morphology, and real-time observation of the FIB processing process. Therefore, the FIB-SEM system can achieve fixed-point etching, deposition, cross-sectional cutting, TEM electron microscopy sample preparation, and micro/nano device preparation of samples Circuit repair, 3D structural characterization, etc.

Global key players of FIB-SEM System include Thermo Fisher Scientific Hitachi and Zeiss, etc. The top three players hold a share over 85%. Japan is the largest market. In terms of product type, Ga Ion Source is the largest segment, occupied for a share of 95%, and in terms of application, Material Science has a share about 40 percent.

Analysis of FIB-SEM system market drivers

1. Demand for semiconductor technology iteration

Advanced process node promotion:

3nm/2nm chip process requires atomic-level defect detection, and FIB-SEM supports nanoscale circuit editing and material composition analysis (such as EDS/EBSD

integration) to help improve yield.

3D packaging technology (such as Chiplet) relies on FIB-SEM for through-silicon via (TSV) cross-sectional analysis and interface defect positioning.

Semiconductor material innovation:

The microstructure research of third-generation semiconductors (GaN, SiC) and two-dimensional materials (graphene) requires FIB-SEM to achieve atomic-level resolution imaging (

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 TEM Holders Annual Sales 2020-2031
 - 2.1.2 World Current & Future Analysis for TEM Holders by Geographic Region, 2020, 2024 & 2031
 - 2.1.3 World Current & Future Analysis for TEM Holders by Country/Region, 2020, 2024 & 2031
- 2.2 TEM Holders Segment by Type
 - 2.2.1 In Situ Holder
 - 2.2.2 Regular Holders (Single Tilt and Double Tilt)
 - 2.2.3 Cryo Holders
 - 2.2.4 Tomography Holders
- 2.3 TEM Holders Sales by Type
 - 2.3.1 Global TEM Holders Sales Market Share by Type (2020-2025)
 - 2.3.2 Global TEM Holders Revenue and Market Share by Type (2020-2025)
 - 2.3.3 Global TEM Holders Sale Price by Type (2020-2025)
- 2.4 TEM Holders Segment by Application
 - 2.4.1 Life Science
 - 2.4.2 Material Science
 - 2.4.3 Semiconductor
 - 2.4.4 Industrial
- 2.5 TEM Holders Sales by Application
 - 2.5.1 Global TEM Holders Sale Market Share by Application (2020-2025)
 - 2.5.2 Global TEM Holders Revenue and Market Share by Application (2020-2025)
 - 2.5.3 Global TEM Holders Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

- 3.1 Global TEM Holders Breakdown Data by Company
 - 3.1.1 Global TEM Holders Annual Sales by Company (2020-2025)
 - 3.1.2 Global TEM Holders Sales Market Share by Company (2020-2025)
- 3.2 Global TEM Holders Annual Revenue by Company (2020-2025)
 - 3.2.1 Global TEM Holders Revenue by Company (2020-2025)
 - 3.2.2 Global TEM Holders Revenue Market Share by Company (2020-2025)
- 3.3 Global TEM Holders Sale Price by Company
- 3.4 Key Manufacturers TEM Holders Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers TEM Holders Product Location Distribution
 - 3.4.2 Players TEM Holders 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 TEM HOLDERS BY GEOGRAPHIC REGION

- 4.1 World Historic TEM Holders Market Size by Geographic Region (2020-2025)
 - 4.1.1 Global TEM Holders Annual Sales by Geographic Region (2020-2025)
 - 4.1.2 Global TEM Holders Annual Revenue by Geographic Region (2020-2025)
- 4.2 World Historic TEM Holders Market Size by Country/Region (2020-2025)
 - 4.2.1 Global TEM Holders Annual Sales by Country/Region (2020-2025)
 - 4.2.2 Global TEM Holders Annual Revenue by Country/Region (2020-2025)
- 4.3 Americas TEM Holders Sales Growth
- 4.4 APAC TEM Holders Sales Growth
- 4.5 Europe TEM Holders Sales Growth
- 4.6 Middle East & Africa TEM Holders Sales Growth

5 AMERICAS

- 5.1 Americas TEM Holders Sales by Country
 - 5.1.1 Americas TEM Holders Sales by Country (2020-2025)
 - 5.1.2 Americas TEM Holders Revenue by Country (2020-2025)
- 5.2 Americas TEM Holders Sales by Type (2020-2025)

5.3 Americas TEM Holders Sales by Application (2020-2025)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC TEM Holders Sales by Region

6.1.1 APAC TEM Holders Sales by Region (2020-2025)

6.1.2 APAC TEM Holders Revenue by Region (2020-2025)

6.2 APAC TEM Holders Sales by Type (2020-2025)

6.3 APAC TEM Holders 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 TEM Holders by Country

7.1.1 Europe TEM Holders Sales by Country (2020-2025)

7.1.2 Europe TEM Holders Revenue by Country (2020-2025)

7.2 Europe TEM Holders Sales by Type (2020-2025)

7.3 Europe TEM Holders 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 TEM Holders by Country

8.1.1 Middle East & Africa TEM Holders Sales by Country (2020-2025)

8.1.2 Middle East & Africa TEM Holders Revenue by Country (2020-2025)

- 8.2 Middle East & Africa TEM Holders Sales by Type (2020-2025)
- 8.3 Middle East & Africa TEM Holders 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 TEM Holders
- 10.3 Manufacturing Process Analysis of TEM Holders
- 10.4 Industry Chain Structure of TEM Holders

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 TEM Holders Distributors
- 11.3 TEM Holders Customer

12 WORLD FORECAST REVIEW FOR TEM HOLDERS BY GEOGRAPHIC REGION

- 12.1 Global TEM Holders Market Size Forecast by Region
 - 12.1.1 Global TEM Holders Forecast by Region (2026-2031)
 - 12.1.2 Global TEM Holders 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 TEM Holders Forecast by Type (2026-2031)

12.7 Global TEM Holders Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 Gatan

13.1.1 Gatan Company Information

13.1.2 Gatan TEM Holders Product Portfolios and Specifications

13.1.3 Gatan TEM Holders Sales, Revenue, Price and Gross Margin (2020-2025)

13.1.4 Gatan Main Business Overview

13.1.5 Gatan Latest Developments

13.2 DENSsolutions

13.2.1 DENSsolutions Company Information

13.2.2 DENSsolutions TEM Holders Product Portfolios and Specifications

13.2.3 DENSsolutions TEM Holders Sales, Revenue, Price and Gross Margin (2020-2025)

13.2.4 DENSsolutions Main Business Overview

13.2.5 DENSsolutions Latest Developments

13.3 Hummingbird Scientific

13.3.1 Hummingbird Scientific Company Information

13.3.2 Hummingbird Scientific TEM Holders Product Portfolios and Specifications

13.3.3 Hummingbird Scientific TEM Holders Sales, Revenue, Price and Gross Margin (2020-2025)

13.3.4 Hummingbird Scientific Main Business Overview

13.3.5 Hummingbird Scientific Latest Developments

13.4 Protochips

13.4.1 Protochips Company Information

13.4.2 Protochips TEM Holders Product Portfolios and Specifications

13.4.3 Protochips TEM Holders Sales, Revenue, Price and Gross Margin (2020-2025)

13.4.4 Protochips Main Business Overview

13.4.5 Protochips Latest Developments

13.5 Kitano Seiki

13.5.1 Kitano Seiki Company Information

13.5.2 Kitano Seiki TEM Holders Product Portfolios and Specifications

13.5.3 Kitano Seiki TEM Holders Sales, Revenue, Price and Gross Margin (2020-2025)

13.5.4 Kitano Seiki Main Business Overview

13.5.5 Kitano Seiki Latest Developments

13.6 Thermo Fisher Scientific (FEI)

13.6.1 Thermo Fisher Scientific (FEI) Company Information

13.6.2 Thermo Fisher Scientific (FEI) TEM Holders Product Portfolios and Specifications

13.6.3 Thermo Fisher Scientific (FEI) TEM Holders Sales, Revenue, Price and Gross Margin (2020-2025)

13.6.4 Thermo Fisher Scientific (FEI) Main Business Overview

13.6.5 Thermo Fisher Scientific (FEI) Latest Developments

13.7 Fischione

13.7.1 Fischione Company Information

13.7.2 Fischione TEM Holders Product Portfolios and Specifications

13.7.3 Fischione TEM Holders Sales, Revenue, Price and Gross Margin (2020-2025)

13.7.4 Fischione Main Business Overview

13.7.5 Fischione Latest Developments

13.8 Mel-Build

13.8.1 Mel-Build Company Information

13.8.2 Mel-Build TEM Holders Product Portfolios and Specifications

13.8.3 Mel-Build TEM Holders Sales, Revenue, Price and Gross Margin (2020-2025)

13.8.4 Mel-Build Main Business Overview

13.8.5 Mel-Build Latest Developments

13.9 ZoNexus

13.9.1 ZoNexus Company Information

13.9.2 ZoNexus TEM Holders Product Portfolios and Specifications

13.9.3 ZoNexus TEM Holders Sales, Revenue, Price and Gross Margin (2020-2025)

13.9.4 ZoNexus Main Business Overview

13.9.5 ZoNexus Latest Developments

13.10 ZEPTools Technology

13.10.1 ZEPTools Technology Company Information

13.10.2 ZEPTools Technology TEM Holders Product Portfolios and Specifications

13.10.3 ZEPTools Technology TEM Holders Sales, Revenue, Price and Gross Margin (2020-2025)

13.10.4 ZEPTools Technology Main Business Overview

13.10.5 ZEPTools Technology Latest Developments

13.11 condenZero AG

13.11.1 condenZero AG Company Information

13.11.2 condenZero AG TEM Holders Product Portfolios and Specifications

13.11.3 condenZero AG TEM Holders Sales, Revenue, Price and Gross Margin (2020-2025)

13.11.4 condenZero AG Main Business Overview

13.11.5 condenZero AG Latest Developments

13.12 Xiamen Chip-nova Technology

13.12.1 Xiamen Chip-nova Technology Company Information

13.12.2 Xiamen Chip-nova Technology TEM Holders Product Portfolios and Specifications

13.12.3 Xiamen Chip-nova Technology TEM Holders Sales, Revenue, Price and Gross Margin (2020-2025)

13.12.4 Xiamen Chip-nova Technology Main Business Overview

13.12.5 Xiamen Chip-nova Technology Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. TEM Holders Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & (\$ millions)

Table 2. TEM Holders Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ millions)

Table 3. Major Players of In Situ Holder

Table 4. Major Players of Regular Holders (Single Tilt and Double Tilt)

Table 5. Major Players of Cryo Holders

Table 6. Major Players of Tomography Holders

Table 7. Global TEM Holders Sales by Type (2020-2025) & (Units)

Table 8. Global TEM Holders Sales Market Share by Type (2020-2025)

Table 9. Global TEM Holders Revenue by Type (2020-2025) & (\$ million)

Table 10. Global TEM Holders Revenue Market Share by Type (2020-2025)

Table 11. Global TEM Holders Sale Price by Type (2020-2025) & (K US\$/Unit)

Table 12. Global TEM Holders Sale by Application (2020-2025) & (Units)

Table 13. Global TEM Holders Sale Market Share by Application (2020-2025)

Table 14. Global TEM Holders Revenue by Application (2020-2025) & (\$ million)

Table 15. Global TEM Holders Revenue Market Share by Application (2020-2025)

Table 16. Global TEM Holders Sale Price by Application (2020-2025) & (K US\$/Unit)

Table 17. Global TEM Holders Sales by Company (2020-2025) & (Units)

Table 18. Global TEM Holders Sales Market Share by Company (2020-2025)

Table 19. Global TEM Holders Revenue by Company (2020-2025) & (\$ millions)

Table 20. Global TEM Holders Revenue Market Share by Company (2020-2025)

Table 21. Global TEM Holders Sale Price by Company (2020-2025) & (K US\$/Unit)

Table 22. Key Manufacturers TEM Holders Producing Area Distribution and Sales Area

Table 23. Players TEM Holders Products Offered

Table 24. TEM Holders Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

Table 25. New Products and Potential Entrants

Table 26. Market M&A Activity & Strategy

Table 27. Global TEM Holders Sales by Geographic Region (2020-2025) & (Units)

Table 28. Global TEM Holders Sales Market Share Geographic Region (2020-2025)

Table 29. Global TEM Holders Revenue by Geographic Region (2020-2025) & (\$ millions)

Table 30. Global TEM Holders Revenue Market Share by Geographic Region (2020-2025)

Table 31. Global TEM Holders Sales by Country/Region (2020-2025) & (Units)

Table 32. Global TEM Holders Sales Market Share by Country/Region (2020-2025)
Table 33. Global TEM Holders Revenue by Country/Region (2020-2025) & (\$ millions)
Table 34. Global TEM Holders Revenue Market Share by Country/Region (2020-2025)
Table 35. Americas TEM Holders Sales by Country (2020-2025) & (Units)
Table 36. Americas TEM Holders Sales Market Share by Country (2020-2025)
Table 37. Americas TEM Holders Revenue by Country (2020-2025) & (\$ millions)
Table 38. Americas TEM Holders Sales by Type (2020-2025) & (Units)
Table 39. Americas TEM Holders Sales by Application (2020-2025) & (Units)
Table 40. APAC TEM Holders Sales by Region (2020-2025) & (Units)
Table 41. APAC TEM Holders Sales Market Share by Region (2020-2025)
Table 42. APAC TEM Holders Revenue by Region (2020-2025) & (\$ millions)
Table 43. APAC TEM Holders Sales by Type (2020-2025) & (Units)
Table 44. APAC TEM Holders Sales by Application (2020-2025) & (Units)
Table 45. Europe TEM Holders Sales by Country (2020-2025) & (Units)
Table 46. Europe TEM Holders Revenue by Country (2020-2025) & (\$ millions)
Table 47. Europe TEM Holders Sales by Type (2020-2025) & (Units)
Table 48. Europe TEM Holders Sales by Application (2020-2025) & (Units)
Table 49. Middle East & Africa TEM Holders Sales by Country (2020-2025) & (Units)
Table 50. Middle East & Africa TEM Holders Revenue Market Share by Country (2020-2025)
Table 51. Middle East & Africa TEM Holders Sales by Type (2020-2025) & (Units)
Table 52. Middle East & Africa TEM Holders Sales by Application (2020-2025) & (Units)
Table 53. Key Market Drivers & Growth Opportunities of TEM Holders
Table 54. Key Market Challenges & Risks of TEM Holders
Table 55. Key Industry Trends of TEM Holders
Table 56. TEM Holders Raw Material
Table 57. Key Suppliers of Raw Materials
Table 58. TEM Holders Distributors List
Table 59. TEM Holders Customer List
Table 60. Global TEM Holders Sales Forecast by Region (2026-2031) & (Units)
Table 61. Global TEM Holders Revenue Forecast by Region (2026-2031) & (\$ millions)
Table 62. Americas TEM Holders Sales Forecast by Country (2026-2031) & (Units)
Table 63. Americas TEM Holders Annual Revenue Forecast by Country (2026-2031) & (\$ millions)
Table 64. APAC TEM Holders Sales Forecast by Region (2026-2031) & (Units)
Table 65. APAC TEM Holders Annual Revenue Forecast by Region (2026-2031) & (\$ millions)
Table 66. Europe TEM Holders Sales Forecast by Country (2026-2031) & (Units)
Table 67. Europe TEM Holders Revenue Forecast by Country (2026-2031) & (\$

millions)

Table 68. Middle East & Africa TEM Holders Sales Forecast by Country (2026-2031) & (Units)

Table 69. Middle East & Africa TEM Holders Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 70. Global TEM Holders Sales Forecast by Type (2026-2031) & (Units)

Table 71. Global TEM Holders Revenue Forecast by Type (2026-2031) & (\$ millions)

Table 72. Global TEM Holders Sales Forecast by Application (2026-2031) & (Units)

Table 73. Global TEM Holders Revenue Forecast by Application (2026-2031) & (\$ millions)

Table 74. Gatan Basic Information, TEM Holders Manufacturing Base, Sales Area and Its Competitors

Table 75. Gatan TEM Holders Product Portfolios and Specifications

Table 76. Gatan TEM Holders Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2020-2025)

Table 77. Gatan Main Business

Table 78. Gatan Latest Developments

Table 79. DENSsolutions Basic Information, TEM Holders Manufacturing Base, Sales Area and Its Competitors

Table 80. DENSsolutions TEM Holders Product Portfolios and Specifications

Table 81. DENSsolutions TEM Holders Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2020-2025)

Table 82. DENSsolutions Main Business

Table 83. DENSsolutions Latest Developments

Table 84. Hummingbird Scientific Basic Information, TEM Holders Manufacturing Base, Sales Area and Its Competitors

Table 85. Hummingbird Scientific TEM Holders Product Portfolios and Specifications

Table 86. Hummingbird Scientific TEM Holders Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2020-2025)

Table 87. Hummingbird Scientific Main Business

Table 88. Hummingbird Scientific Latest Developments

Table 89. Protochips Basic Information, TEM Holders Manufacturing Base, Sales Area and Its Competitors

Table 90. Protochips TEM Holders Product Portfolios and Specifications

Table 91. Protochips TEM Holders Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2020-2025)

Table 92. Protochips Main Business

Table 93. Protochips Latest Developments

Table 94. Kitano Seiki Basic Information, TEM Holders Manufacturing Base, Sales Area

and Its Competitors

Table 95. Kitano Seiki TEM Holders Product Portfolios and Specifications

Table 96. Kitano Seiki TEM Holders Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2020-2025)

Table 97. Kitano Seiki Main Business

Table 98. Kitano Seiki Latest Developments

Table 99. Thermo Fisher Scientific (FEI) Basic Information, TEM Holders Manufacturing Base, Sales Area and Its Competitors

Table 100. Thermo Fisher Scientific (FEI) TEM Holders Product Portfolios and Specifications

Table 101. Thermo Fisher Scientific (FEI) TEM Holders Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2020-2025)

Table 102. Thermo Fisher Scientific (FEI) Main Business

Table 103. Thermo Fisher Scientific (FEI) Latest Developments

Table 104. Fischione Basic Information, TEM Holders Manufacturing Base, Sales Area and Its Competitors

Table 105. Fischione TEM Holders Product Portfolios and Specifications

Table 106. Fischione TEM Holders Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2020-2025)

Table 107. Fischione Main Business

Table 108. Fischione Latest Developments

Table 109. Mel-Build Basic Information, TEM Holders Manufacturing Base, Sales Area and Its Competitors

Table 110. Mel-Build TEM Holders Product Portfolios and Specifications

Table 111. Mel-Build TEM Holders Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2020-2025)

Table 112. Mel-Build Main Business

Table 113. Mel-Build Latest Developments

Table 114. ZoNexus Basic Information, TEM Holders Manufacturing Base, Sales Area and Its Competitors

Table 115. ZoNexus TEM Holders Product Portfolios and Specifications

Table 116. ZoNexus TEM Holders Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2020-2025)

Table 117. ZoNexus Main Business

Table 118. ZoNexus Latest Developments

Table 119. ZEPTools Technology Basic Information, TEM Holders Manufacturing Base, Sales Area and Its Competitors

Table 120. ZEPTools Technology TEM Holders Product Portfolios and Specifications

Table 121. ZEPTools Technology TEM Holders Sales (Units), Revenue (\$ Million), Price

(K US\$/Unit) and Gross Margin (2020-2025)

Table 122. ZEPTools Technology Main Business

Table 123. ZEPTools Technology Latest Developments

Table 124. condenZero AG Basic Information, TEM Holders Manufacturing Base, Sales Area and Its Competitors

Table 125. condenZero AG TEM Holders Product Portfolios and Specifications

Table 126. condenZero AG TEM Holders Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2020-2025)

Table 127. condenZero AG Main Business

Table 128. condenZero AG Latest Developments

Table 129. Xiamen Chip-nova Technology Basic Information, TEM Holders Manufacturing Base, Sales Area and Its Competitors

Table 130. Xiamen Chip-nova Technology TEM Holders Product Portfolios and Specifications

Table 131. Xiamen Chip-nova Technology TEM Holders Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2020-2025)

Table 132. Xiamen Chip-nova Technology Main Business

Table 133. Xiamen Chip-nova Technology Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of TEM Holders
- Figure 2. TEM Holders Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global TEM Holders Sales Growth Rate 2020-2031 (Units)
- Figure 7. Global TEM Holders Revenue Growth Rate 2020-2031 (\$ millions)
- Figure 8. TEM Holders Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Figure 9. TEM Holders Sales Market Share by Country/Region (2024)
- Figure 10. TEM Holders Sales Market Share by Country/Region (2020, 2024 & 2031)
- Figure 11. Product Picture of In Situ Holder
- Figure 12. Product Picture of Regular Holders (Single Tilt and Double Tilt)
- Figure 13. Product Picture of Cryo Holders
- Figure 14. Product Picture of Tomography Holders
- Figure 15. Global TEM Holders Sales Market Share by Type in 2025
- Figure 16. Global TEM Holders Revenue Market Share by Type (2020-2025)
- Figure 17. TEM Holders Consumed in Life Science
- Figure 18. Global TEM Holders Market: Life Science (2020-2025) & (Units)
- Figure 19. TEM Holders Consumed in Material Science
- Figure 20. Global TEM Holders Market: Material Science (2020-2025) & (Units)
- Figure 21. TEM Holders Consumed in Semiconductor
- Figure 22. Global TEM Holders Market: Semiconductor (2020-2025) & (Units)
- Figure 23. TEM Holders Consumed in Industrial
- Figure 24. Global TEM Holders Market: Industrial (2020-2025) & (Units)
- Figure 25. Global TEM Holders Sale Market Share by Application (2024)
- Figure 26. Global TEM Holders Revenue Market Share by Application in 2025
- Figure 27. TEM Holders Sales by Company in 2025 (Units)
- Figure 28. Global TEM Holders Sales Market Share by Company in 2025
- Figure 29. TEM Holders Revenue by Company in 2025 (\$ millions)
- Figure 30. Global TEM Holders Revenue Market Share by Company in 2025
- Figure 31. Global TEM Holders Sales Market Share by Geographic Region (2020-2025)
- Figure 32. Global TEM Holders Revenue Market Share by Geographic Region in 2025
- Figure 33. Americas TEM Holders Sales 2020-2025 (Units)
- Figure 34. Americas TEM Holders Revenue 2020-2025 (\$ millions)
- Figure 35. APAC TEM Holders Sales 2020-2025 (Units)

- Figure 36. APAC TEM Holders Revenue 2020-2025 (\$ millions)
- Figure 37. Europe TEM Holders Sales 2020-2025 (Units)
- Figure 38. Europe TEM Holders Revenue 2020-2025 (\$ millions)
- Figure 39. Middle East & Africa TEM Holders Sales 2020-2025 (Units)
- Figure 40. Middle East & Africa TEM Holders Revenue 2020-2025 (\$ millions)
- Figure 41. Americas TEM Holders Sales Market Share by Country in 2025
- Figure 42. Americas TEM Holders Revenue Market Share by Country (2020-2025)
- Figure 43. Americas TEM Holders Sales Market Share by Type (2020-2025)
- Figure 44. Americas TEM Holders Sales Market Share by Application (2020-2025)
- Figure 45. United States TEM Holders Revenue Growth 2020-2025 (\$ millions)
- Figure 46. Canada TEM Holders Revenue Growth 2020-2025 (\$ millions)
- Figure 47. Mexico TEM Holders Revenue Growth 2020-2025 (\$ millions)
- Figure 48. Brazil TEM Holders Revenue Growth 2020-2025 (\$ millions)
- Figure 49. APAC TEM Holders Sales Market Share by Region in 2025
- Figure 50. APAC TEM Holders Revenue Market Share by Region (2020-2025)
- Figure 51. APAC TEM Holders Sales Market Share by Type (2020-2025)
- Figure 52. APAC TEM Holders Sales Market Share by Application (2020-2025)
- Figure 53. China TEM Holders Revenue Growth 2020-2025 (\$ millions)
- Figure 54. Japan TEM Holders Revenue Growth 2020-2025 (\$ millions)
- Figure 55. South Korea TEM Holders Revenue Growth 2020-2025 (\$ millions)
- Figure 56. Southeast Asia TEM Holders Revenue Growth 2020-2025 (\$ millions)
- Figure 57. India TEM Holders Revenue Growth 2020-2025 (\$ millions)
- Figure 58. Australia TEM Holders Revenue Growth 2020-2025 (\$ millions)
- Figure 59. China Taiwan TEM Holders Revenue Growth 2020-2025 (\$ millions)
- Figure 60. Europe TEM Holders Sales Market Share by Country in 2025
- Figure 61. Europe TEM Holders Revenue Market Share by Country (2020-2025)
- Figure 62. Europe TEM Holders Sales Market Share by Type (2020-2025)
- Figure 63. Europe TEM Holders Sales Market Share by Application (2020-2025)
- Figure 64. Germany TEM Holders Revenue Growth 2020-2025 (\$ millions)
- Figure 65. France TEM Holders Revenue Growth 2020-2025 (\$ millions)
- Figure 66. UK TEM Holders Revenue Growth 2020-2025 (\$ millions)
- Figure 67. Italy TEM Holders Revenue Growth 2020-2025 (\$ millions)
- Figure 68. Russia TEM Holders Revenue Growth 2020-2025 (\$ millions)
- Figure 69. Middle East & Africa TEM Holders Sales Market Share by Country (2020-2025)
- Figure 70. Middle East & Africa TEM Holders Sales Market Share by Type (2020-2025)
- Figure 71. Middle East & Africa TEM Holders Sales Market Share by Application (2020-2025)
- Figure 72. Egypt TEM Holders Revenue Growth 2020-2025 (\$ millions)

- Figure 73. South Africa TEM Holders Revenue Growth 2020-2025 (\$ millions)
- Figure 74. Israel TEM Holders Revenue Growth 2020-2025 (\$ millions)
- Figure 75. Turkey TEM Holders Revenue Growth 2020-2025 (\$ millions)
- Figure 76. GCC Countries TEM Holders Revenue Growth 2020-2025 (\$ millions)
- Figure 77. Manufacturing Cost Structure Analysis of TEM Holders in 2025
- Figure 78. Manufacturing Process Analysis of TEM Holders
- Figure 79. Industry Chain Structure of TEM Holders
- Figure 80. Channels of Distribution
- Figure 81. Global TEM Holders Sales Market Forecast by Region (2026-2031)
- Figure 82. Global TEM Holders Revenue Market Share Forecast by Region (2026-2031)
- Figure 83. Global TEM Holders Sales Market Share Forecast by Type (2026-2031)
- Figure 84. Global TEM Holders Revenue Market Share Forecast by Type (2026-2031)
- Figure 85. Global TEM Holders Sales Market Share Forecast by Application (2026-2031)
- Figure 86. Global TEM Holders Revenue Market Share Forecast by Application (2026-2031)

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