

Global Brown Oxide Treatment Machine Market Growth 2026-2032

<https://marketpublishers.com/r/G0960238D8F5EN.html>

Date: April 2026

Pages: 103

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

ID: G0960238D8F5EN

Abstracts

The global Brown Oxide Treatment Machine market size is predicted to grow from US\$ million in 2025 to US\$ million in 2032; it is expected to grow at a CAGR of % from 2026 to 2032.

Brown oxide treatment machine is a kind of equipment used in PCB brown oxide treatment process. The brown oxide treatment is one of the methods for refining shiny copper surfaces and increases the adherence to resin. Brown oxidation uses acid and alkali to remove oxides, grease, residual dry film, fingerprints and other foreign matter on the surface of the PCB substrate. Through the chemical reaction between the liquid and the copper surface of the PCB substrate, the roughness of the copper surface is increased, which activates the copper surface and roughens the board surface. The purpose of brown oxidation is to enhance the bonding force between the inner core board and the prepreg.

United States market for Brown Oxide Treatment Machine is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Brown Oxide Treatment Machine is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Brown Oxide Treatment Machine is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Brown Oxide Treatment Machine players cover Atotech, Manz AG, Dongwei Technology, UCE Group, Commend Machinery, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the “Brown Oxide Treatment Machine Industry Forecast” looks at past sales and reviews total world Brown Oxide Treatment Machine sales in 2025, providing a comprehensive analysis by region and market sector of projected Brown Oxide Treatment Machine sales for 2026 through 2032. With Brown Oxide Treatment Machine sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Brown Oxide Treatment Machine industry.

This Insight Report provides a comprehensive analysis of the global Brown Oxide Treatment Machine 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 Brown Oxide Treatment Machine portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Brown Oxide Treatment Machine market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Brown Oxide Treatment Machine 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 Brown Oxide Treatment Machine.

This report presents a comprehensive overview, market shares, and growth opportunities of Brown Oxide Treatment Machine market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

?5m/min

>5m/min

Segmentation by Application:

Flex Boards

Rigid Boards

Flex-Rigid Boards

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.

Atotech

Manz AG

Dongwei Technology

UCE Group

Commend Machinery

Shenzhen Keludi Machinery

AMPOC

Hi-Ji

Changzhou hongshengda Electronic Equipment

YONGTIAN MACHINE EQUIPMENT

Key Questions Addressed in this Report

What is the 10-year outlook for the global Brown Oxide Treatment Machine market?

What factors are driving Brown Oxide Treatment Machine market growth, globally and by region?

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

How do Brown Oxide Treatment Machine market opportunities vary by end market size?

How does Brown Oxide Treatment Machine 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 Brown Oxide Treatment Machine Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Brown Oxide Treatment Machine by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Brown Oxide Treatment Machine by Country/Region, 2021, 2025 & 2032

2.2 Brown Oxide Treatment Machine Segment by Type

- 2.2.1 ?5m/min
- 2.2.2 @Oo@5m/min
- 2.2.3 Brown Oxide Treatment Machine Sales by Type
 - 2.2.3.1 Global Brown Oxide Treatment Machine Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global Brown Oxide Treatment Machine Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global Brown Oxide Treatment Machine Sale Price by Type (2021-2026)

2.3 Brown Oxide Treatment Machine Segment by Application

- 2.3.1 Flex Boards
- 2.3.2 Rigid Boards
- 2.3.3 Flex-Rigid Boards
- 2.3.4 Brown Oxide Treatment Machine Sales by Application
 - 2.3.4.1 Global Brown Oxide Treatment Machine Sale Market Share by Application (2021-2026)
 - 2.3.4.2 Global Brown Oxide Treatment Machine Revenue and Market Share by Application (2021-2026)

2.3.4.3 Global Brown Oxide Treatment Machine Sale Price by Application
(2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Brown Oxide Treatment Machine Breakdown Data by Company

3.1.1 Global Brown Oxide Treatment Machine Annual Sales by Company (2021-2026)

3.1.2 Global Brown Oxide Treatment Machine Sales Market Share by Company
(2021-2026)

3.2 Global Brown Oxide Treatment Machine Annual Revenue by Company (2021-2026)

3.2.1 Global Brown Oxide Treatment Machine Revenue by Company (2021-2026)

3.2.2 Global Brown Oxide Treatment Machine Revenue Market Share by Company
(2021-2026)

3.3 Global Brown Oxide Treatment Machine Sale Price by Company

3.4 Key Manufacturers Brown Oxide Treatment Machine Producing Area Distribution,
Sales Area, Product Type

3.4.1 Key Manufacturers Brown Oxide Treatment Machine Product Location
Distribution

3.4.2 Players Brown Oxide Treatment Machine Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR BROWN OXIDE TREATMENT MACHINE BY GEOGRAPHIC REGION

4.1 World Historic Brown Oxide Treatment Machine Market Size by Geographic Region
(2021-2026)

4.1.1 Global Brown Oxide Treatment Machine Annual Sales by Geographic Region
(2021-2026)

4.1.2 Global Brown Oxide Treatment Machine Annual Revenue by Geographic Region
(2021-2026)

4.2 World Historic Brown Oxide Treatment Machine Market Size by Country/Region
(2021-2026)

4.2.1 Global Brown Oxide Treatment Machine Annual Sales by Country/Region
(2021-2026)

4.2.2 Global Brown Oxide Treatment Machine Annual Revenue by Country/Region

(2021-2026)

4.3 Americas Brown Oxide Treatment Machine Sales Growth

4.4 APAC Brown Oxide Treatment Machine Sales Growth

4.5 Europe Brown Oxide Treatment Machine Sales Growth

4.6 Middle East & Africa Brown Oxide Treatment Machine Sales Growth

5 AMERICAS

5.1 Americas Brown Oxide Treatment Machine Sales by Country

5.1.1 Americas Brown Oxide Treatment Machine Sales by Country (2021-2026)

5.1.2 Americas Brown Oxide Treatment Machine Revenue by Country (2021-2026)

5.2 Americas Brown Oxide Treatment Machine Sales by Type (2021-2026)

5.3 Americas Brown Oxide Treatment Machine Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Brown Oxide Treatment Machine Sales by Region

6.1.1 APAC Brown Oxide Treatment Machine Sales by Region (2021-2026)

6.1.2 APAC Brown Oxide Treatment Machine Revenue by Region (2021-2026)

6.2 APAC Brown Oxide Treatment Machine Sales by Type (2021-2026)

6.3 APAC Brown Oxide Treatment Machine Sales by Application (2021-2026)

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 Brown Oxide Treatment Machine by Country

7.1.1 Europe Brown Oxide Treatment Machine Sales by Country (2021-2026)

7.1.2 Europe Brown Oxide Treatment Machine Revenue by Country (2021-2026)

7.2 Europe Brown Oxide Treatment Machine Sales by Type (2021-2026)

7.3 Europe Brown Oxide Treatment Machine Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Brown Oxide Treatment Machine by Country

8.1.1 Middle East & Africa Brown Oxide Treatment Machine Sales by Country (2021-2026)

8.1.2 Middle East & Africa Brown Oxide Treatment Machine Revenue by Country (2021-2026)

8.2 Middle East & Africa Brown Oxide Treatment Machine Sales by Type (2021-2026)

8.3 Middle East & Africa Brown Oxide Treatment Machine Sales by Application (2021-2026)

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 Brown Oxide Treatment Machine

10.3 Manufacturing Process Analysis of Brown Oxide Treatment Machine

10.4 Industry Chain Structure of Brown Oxide Treatment Machine

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

- 11.1.1 Direct Channels
- 11.1.2 Indirect Channels
- 11.2 Brown Oxide Treatment Machine Distributors
- 11.3 Brown Oxide Treatment Machine Customer

12 WORLD FORECAST REVIEW FOR BROWN OXIDE TREATMENT MACHINE BY GEOGRAPHIC REGION

- 12.1 Global Brown Oxide Treatment Machine Market Size Forecast by Region
 - 12.1.1 Global Brown Oxide Treatment Machine Forecast by Region (2027-2032)
 - 12.1.2 Global Brown Oxide Treatment Machine Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Brown Oxide Treatment Machine Forecast by Type (2027-2032)
- 12.7 Global Brown Oxide Treatment Machine Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 Atotech
 - 13.1.1 Atotech Company Information
 - 13.1.2 Atotech Brown Oxide Treatment Machine Product Portfolios and Specifications
 - 13.1.3 Atotech Brown Oxide Treatment Machine Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.1.4 Atotech Main Business Overview
 - 13.1.5 Atotech Latest Developments
- 13.2 Manz AG
 - 13.2.1 Manz AG Company Information
 - 13.2.2 Manz AG Brown Oxide Treatment Machine Product Portfolios and Specifications
 - 13.2.3 Manz AG Brown Oxide Treatment Machine Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.2.4 Manz AG Main Business Overview
 - 13.2.5 Manz AG Latest Developments
- 13.3 Dongwei Technology
 - 13.3.1 Dongwei Technology Company Information
 - 13.3.2 Dongwei Technology Brown Oxide Treatment Machine Product Portfolios and

Specifications

13.3.3 Dongwei Technology Brown Oxide Treatment Machine Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Dongwei Technology Main Business Overview

13.3.5 Dongwei Technology Latest Developments

13.4 UCE Group

13.4.1 UCE Group Company Information

13.4.2 UCE Group Brown Oxide Treatment Machine Product Portfolios and

Specifications

13.4.3 UCE Group Brown Oxide Treatment Machine Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 UCE Group Main Business Overview

13.4.5 UCE Group Latest Developments

13.5 Commend Machinery

13.5.1 Commend Machinery Company Information

13.5.2 Commend Machinery Brown Oxide Treatment Machine Product Portfolios and

Specifications

13.5.3 Commend Machinery Brown Oxide Treatment Machine Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Commend Machinery Main Business Overview

13.5.5 Commend Machinery Latest Developments

13.6 Shenzhen Keludi Machinery

13.6.1 Shenzhen Keludi Machinery Company Information

13.6.2 Shenzhen Keludi Machinery Brown Oxide Treatment Machine Product

Portfolios and Specifications

13.6.3 Shenzhen Keludi Machinery Brown Oxide Treatment Machine Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Shenzhen Keludi Machinery Main Business Overview

13.6.5 Shenzhen Keludi Machinery Latest Developments

13.7 AMPOC

13.7.1 AMPOC Company Information

13.7.2 AMPOC Brown Oxide Treatment Machine Product Portfolios and Specifications

13.7.3 AMPOC Brown Oxide Treatment Machine Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 AMPOC Main Business Overview

13.7.5 AMPOC Latest Developments

13.8 Hi-Ji

13.8.1 Hi-Ji Company Information

13.8.2 Hi-Ji Brown Oxide Treatment Machine Product Portfolios and Specifications

13.8.3 Hi-Ji Brown Oxide Treatment Machine Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Hi-Ji Main Business Overview

13.8.5 Hi-Ji Latest Developments

13.9 Changzhou hongshengda Electronic Equipment

13.9.1 Changzhou hongshengda Electronic Equipment Company Information

13.9.2 Changzhou hongshengda Electronic Equipment Brown Oxide Treatment Machine Product Portfolios and Specifications

13.9.3 Changzhou hongshengda Electronic Equipment Brown Oxide Treatment Machine Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Changzhou hongshengda Electronic Equipment Main Business Overview

13.9.5 Changzhou hongshengda Electronic Equipment Latest Developments

13.10 YONGTIAN MACHINE EQUIPMENT

13.10.1 YONGTIAN MACHINE EQUIPMENT Company Information

13.10.2 YONGTIAN MACHINE EQUIPMENT Brown Oxide Treatment Machine Product Portfolios and Specifications

13.10.3 YONGTIAN MACHINE EQUIPMENT Brown Oxide Treatment Machine Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 YONGTIAN MACHINE EQUIPMENT Main Business Overview

13.10.5 YONGTIAN MACHINE EQUIPMENT Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Brown Oxide Treatment Machine Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Brown Oxide Treatment Machine Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of $\leq 5\text{m}/\text{min}$

Table 4. Major Players of $> 5\text{m}/\text{min}$

Table 5. Global Brown Oxide Treatment Machine Sales by Type (2021-2026) & (Units)

Table 6. Global Brown Oxide Treatment Machine Sales Market Share by Type (2021-2026)

Table 7. Global Brown Oxide Treatment Machine Revenue by Type (2021-2026) & (\$ million)

Table 8. Global Brown Oxide Treatment Machine Revenue Market Share by Type (2021-2026)

Table 9. Global Brown Oxide Treatment Machine Sale Price by Type (2021-2026) & (US\$/Unit)

Table 10. Global Brown Oxide Treatment Machine Sale by Application (2021-2026) & (Units)

Table 11. Global Brown Oxide Treatment Machine Sale Market Share by Application (2021-2026)

Table 12. Global Brown Oxide Treatment Machine Revenue by Application (2021-2026) & (\$ million)

Table 13. Global Brown Oxide Treatment Machine Revenue Market Share by Application (2021-2026)

Table 14. Global Brown Oxide Treatment Machine Sale Price by Application (2021-2026) & (US\$/Unit)

Table 15. Global Brown Oxide Treatment Machine Sales by Company (2021-2026) & (Units)

Table 16. Global Brown Oxide Treatment Machine Sales Market Share by Company (2021-2026)

Table 17. Global Brown Oxide Treatment Machine Revenue by Company (2021-2026) & (\$ millions)

Table 18. Global Brown Oxide Treatment Machine Revenue Market Share by Company (2021-2026)

Table 19. Global Brown Oxide Treatment Machine Sale Price by Company (2021-2026) & (US\$/Unit)

Table 20. Key Manufacturers Brown Oxide Treatment Machine Producing Area Distribution and Sales Area

Table 21. Players Brown Oxide Treatment Machine Products Offered

Table 22. Brown Oxide Treatment Machine Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 23. New Products and Potential Entrants

Table 24. Market M&A Activity & Strategy

Table 25. Global Brown Oxide Treatment Machine Sales by Geographic Region (2021-2026) & (Units)

Table 26. Global Brown Oxide Treatment Machine Sales Market Share Geographic Region (2021-2026)

Table 27. Global Brown Oxide Treatment Machine Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 28. Global Brown Oxide Treatment Machine Revenue Market Share by Geographic Region (2021-2026)

Table 29. Global Brown Oxide Treatment Machine Sales by Country/Region (2021-2026) & (Units)

Table 30. Global Brown Oxide Treatment Machine Sales Market Share by Country/Region (2021-2026)

Table 31. Global Brown Oxide Treatment Machine Revenue by Country/Region (2021-2026) & (\$ millions)

Table 32. Global Brown Oxide Treatment Machine Revenue Market Share by Country/Region (2021-2026)

Table 33. Americas Brown Oxide Treatment Machine Sales by Country (2021-2026) & (Units)

Table 34. Americas Brown Oxide Treatment Machine Sales Market Share by Country (2021-2026)

Table 35. Americas Brown Oxide Treatment Machine Revenue by Country (2021-2026) & (\$ millions)

Table 36. Americas Brown Oxide Treatment Machine Sales by Type (2021-2026) & (Units)

Table 37. Americas Brown Oxide Treatment Machine Sales by Application (2021-2026) & (Units)

Table 38. APAC Brown Oxide Treatment Machine Sales by Region (2021-2026) & (Units)

Table 39. APAC Brown Oxide Treatment Machine Sales Market Share by Region (2021-2026)

Table 40. APAC Brown Oxide Treatment Machine Revenue by Region (2021-2026) & (\$ millions)

- Table 41. APAC Brown Oxide Treatment Machine Sales by Type (2021-2026) & (Units)
- Table 42. APAC Brown Oxide Treatment Machine Sales by Application (2021-2026) & (Units)
- Table 43. Europe Brown Oxide Treatment Machine Sales by Country (2021-2026) & (Units)
- Table 44. Europe Brown Oxide Treatment Machine Revenue by Country (2021-2026) & (\$ millions)
- Table 45. Europe Brown Oxide Treatment Machine Sales by Type (2021-2026) & (Units)
- Table 46. Europe Brown Oxide Treatment Machine Sales by Application (2021-2026) & (Units)
- Table 47. Middle East & Africa Brown Oxide Treatment Machine Sales by Country (2021-2026) & (Units)
- Table 48. Middle East & Africa Brown Oxide Treatment Machine Revenue Market Share by Country (2021-2026)
- Table 49. Middle East & Africa Brown Oxide Treatment Machine Sales by Type (2021-2026) & (Units)
- Table 50. Middle East & Africa Brown Oxide Treatment Machine Sales by Application (2021-2026) & (Units)
- Table 51. Key Market Drivers & Growth Opportunities of Brown Oxide Treatment Machine
- Table 52. Key Market Challenges & Risks of Brown Oxide Treatment Machine
- Table 53. Key Industry Trends of Brown Oxide Treatment Machine
- Table 54. Brown Oxide Treatment Machine Raw Material
- Table 55. Key Suppliers of Raw Materials
- Table 56. Brown Oxide Treatment Machine Distributors List
- Table 57. Brown Oxide Treatment Machine Customer List
- Table 58. Global Brown Oxide Treatment Machine Sales Forecast by Region (2027-2032) & (Units)
- Table 59. Global Brown Oxide Treatment Machine Revenue Forecast by Region (2027-2032) & (\$ millions)
- Table 60. Americas Brown Oxide Treatment Machine Sales Forecast by Country (2027-2032) & (Units)
- Table 61. Americas Brown Oxide Treatment Machine Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 62. APAC Brown Oxide Treatment Machine Sales Forecast by Region (2027-2032) & (Units)
- Table 63. APAC Brown Oxide Treatment Machine Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

- Table 64. Europe Brown Oxide Treatment Machine Sales Forecast by Country (2027-2032) & (Units)
- Table 65. Europe Brown Oxide Treatment Machine Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 66. Middle East & Africa Brown Oxide Treatment Machine Sales Forecast by Country (2027-2032) & (Units)
- Table 67. Middle East & Africa Brown Oxide Treatment Machine Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 68. Global Brown Oxide Treatment Machine Sales Forecast by Type (2027-2032) & (Units)
- Table 69. Global Brown Oxide Treatment Machine Revenue Forecast by Type (2027-2032) & (\$ millions)
- Table 70. Global Brown Oxide Treatment Machine Sales Forecast by Application (2027-2032) & (Units)
- Table 71. Global Brown Oxide Treatment Machine Revenue Forecast by Application (2027-2032) & (\$ millions)
- Table 72. Atotech Basic Information, Brown Oxide Treatment Machine Manufacturing Base, Sales Area and Its Competitors
- Table 73. Atotech Brown Oxide Treatment Machine Product Portfolios and Specifications
- Table 74. Atotech Brown Oxide Treatment Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 75. Atotech Main Business
- Table 76. Atotech Latest Developments
- Table 77. Manz AG Basic Information, Brown Oxide Treatment Machine Manufacturing Base, Sales Area and Its Competitors
- Table 78. Manz AG Brown Oxide Treatment Machine Product Portfolios and Specifications
- Table 79. Manz AG Brown Oxide Treatment Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 80. Manz AG Main Business
- Table 81. Manz AG Latest Developments
- Table 82. Dongwei Technology Basic Information, Brown Oxide Treatment Machine Manufacturing Base, Sales Area and Its Competitors
- Table 83. Dongwei Technology Brown Oxide Treatment Machine Product Portfolios and Specifications
- Table 84. Dongwei Technology Brown Oxide Treatment Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 85. Dongwei Technology Main Business

- Table 86. Dongwei Technology Latest Developments
- Table 87. UCE Group Basic Information, Brown Oxide Treatment Machine Manufacturing Base, Sales Area and Its Competitors
- Table 88. UCE Group Brown Oxide Treatment Machine Product Portfolios and Specifications
- Table 89. UCE Group Brown Oxide Treatment Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 90. UCE Group Main Business
- Table 91. UCE Group Latest Developments
- Table 92. Commend Machinery Basic Information, Brown Oxide Treatment Machine Manufacturing Base, Sales Area and Its Competitors
- Table 93. Commend Machinery Brown Oxide Treatment Machine Product Portfolios and Specifications
- Table 94. Commend Machinery Brown Oxide Treatment Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 95. Commend Machinery Main Business
- Table 96. Commend Machinery Latest Developments
- Table 97. Shenzhen Keludi Machinery Basic Information, Brown Oxide Treatment Machine Manufacturing Base, Sales Area and Its Competitors
- Table 98. Shenzhen Keludi Machinery Brown Oxide Treatment Machine Product Portfolios and Specifications
- Table 99. Shenzhen Keludi Machinery Brown Oxide Treatment Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 100. Shenzhen Keludi Machinery Main Business
- Table 101. Shenzhen Keludi Machinery Latest Developments
- Table 102. AMPOC Basic Information, Brown Oxide Treatment Machine Manufacturing Base, Sales Area and Its Competitors
- Table 103. AMPOC Brown Oxide Treatment Machine Product Portfolios and Specifications
- Table 104. AMPOC Brown Oxide Treatment Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 105. AMPOC Main Business
- Table 106. AMPOC Latest Developments
- Table 107. Hi-Ji Basic Information, Brown Oxide Treatment Machine Manufacturing Base, Sales Area and Its Competitors
- Table 108. Hi-Ji Brown Oxide Treatment Machine Product Portfolios and Specifications
- Table 109. Hi-Ji Brown Oxide Treatment Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 110. Hi-Ji Main Business

Table 111. Hi-Ji Latest Developments

Table 112. Changzhou hongshengda Electronic Equipment Basic Information, Brown Oxide Treatment Machine Manufacturing Base, Sales Area and Its Competitors

Table 113. Changzhou hongshengda Electronic Equipment Brown Oxide Treatment Machine Product Portfolios and Specifications

Table 114. Changzhou hongshengda Electronic Equipment Brown Oxide Treatment Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 115. Changzhou hongshengda Electronic Equipment Main Business

Table 116. Changzhou hongshengda Electronic Equipment Latest Developments

Table 117. YONGTIAN MACHINE EQUIPMENT Basic Information, Brown Oxide Treatment Machine Manufacturing Base, Sales Area and Its Competitors

Table 118. YONGTIAN MACHINE EQUIPMENT Brown Oxide Treatment Machine Product Portfolios and Specifications

Table 119. YONGTIAN MACHINE EQUIPMENT Brown Oxide Treatment Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 120. YONGTIAN MACHINE EQUIPMENT Main Business

Table 121. YONGTIAN MACHINE EQUIPMENT Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Brown Oxide Treatment Machine
- Figure 2. Brown Oxide Treatment Machine Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Brown Oxide Treatment Machine Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global Brown Oxide Treatment Machine Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Brown Oxide Treatment Machine Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Brown Oxide Treatment Machine Sales Market Share by Country/Region (2025)
- Figure 10. Brown Oxide Treatment Machine Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of ?5m/min
- Figure 12. Product Picture of >5m/min
- Figure 13. Global Brown Oxide Treatment Machine Sales Market Share by Type in 2026
- Figure 14. Global Brown Oxide Treatment Machine Revenue Market Share by Type (2021-2026)
- Figure 15. Brown Oxide Treatment Machine Consumed in Flex Boards
- Figure 16. Global Brown Oxide Treatment Machine Market: Flex Boards (2021-2026) & (Units)
- Figure 17. Brown Oxide Treatment Machine Consumed in Rigid Boards
- Figure 18. Global Brown Oxide Treatment Machine Market: Rigid Boards (2021-2026) & (Units)
- Figure 19. Brown Oxide Treatment Machine Consumed in Flex-Rigid Boards
- Figure 20. Global Brown Oxide Treatment Machine Market: Flex-Rigid Boards (2021-2026) & (Units)
- Figure 21. Global Brown Oxide Treatment Machine Sale Market Share by Application (2025)
- Figure 22. Global Brown Oxide Treatment Machine Revenue Market Share by Application in 2026
- Figure 23. Brown Oxide Treatment Machine Sales by Company in 2026 (Units)
- Figure 24. Global Brown Oxide Treatment Machine Sales Market Share by Company in

2026

Figure 25. Brown Oxide Treatment Machine Revenue by Company in 2026 (\$ millions)

Figure 26. Global Brown Oxide Treatment Machine Revenue Market Share by Company in 2026

Figure 27. Global Brown Oxide Treatment Machine Sales Market Share by Geographic Region (2021-2026)

Figure 28. Global Brown Oxide Treatment Machine Revenue Market Share by Geographic Region in 2026

Figure 29. Americas Brown Oxide Treatment Machine Sales 2021-2026 (Units)

Figure 30. Americas Brown Oxide Treatment Machine Revenue 2021-2026 (\$ millions)

Figure 31. APAC Brown Oxide Treatment Machine Sales 2021-2026 (Units)

Figure 32. APAC Brown Oxide Treatment Machine Revenue 2021-2026 (\$ millions)

Figure 33. Europe Brown Oxide Treatment Machine Sales 2021-2026 (Units)

Figure 34. Europe Brown Oxide Treatment Machine Revenue 2021-2026 (\$ millions)

Figure 35. Middle East & Africa Brown Oxide Treatment Machine Sales 2021-2026 (Units)

Figure 36. Middle East & Africa Brown Oxide Treatment Machine Revenue 2021-2026 (\$ millions)

Figure 37. Americas Brown Oxide Treatment Machine Sales Market Share by Country in 2026

Figure 38. Americas Brown Oxide Treatment Machine Revenue Market Share by Country (2021-2026)

Figure 39. Americas Brown Oxide Treatment Machine Sales Market Share by Type (2021-2026)

Figure 40. Americas Brown Oxide Treatment Machine Sales Market Share by Application (2021-2026)

Figure 41. United States Brown Oxide Treatment Machine Revenue Growth 2021-2026 (\$ millions)

Figure 42. Canada Brown Oxide Treatment Machine Revenue Growth 2021-2026 (\$ millions)

Figure 43. Mexico Brown Oxide Treatment Machine Revenue Growth 2021-2026 (\$ millions)

Figure 44. Brazil Brown Oxide Treatment Machine Revenue Growth 2021-2026 (\$ millions)

Figure 45. APAC Brown Oxide Treatment Machine Sales Market Share by Region in 2026

Figure 46. APAC Brown Oxide Treatment Machine Revenue Market Share by Region (2021-2026)

Figure 47. APAC Brown Oxide Treatment Machine Sales Market Share by Type

(2021-2026)

Figure 48. APAC Brown Oxide Treatment Machine Sales Market Share by Application (2021-2026)

Figure 49. China Brown Oxide Treatment Machine Revenue Growth 2021-2026 (\$ millions)

Figure 50. Japan Brown Oxide Treatment Machine Revenue Growth 2021-2026 (\$ millions)

Figure 51. South Korea Brown Oxide Treatment Machine Revenue Growth 2021-2026 (\$ millions)

Figure 52. Southeast Asia Brown Oxide Treatment Machine Revenue Growth 2021-2026 (\$ millions)

Figure 53. India Brown Oxide Treatment Machine Revenue Growth 2021-2026 (\$ millions)

Figure 54. Australia Brown Oxide Treatment Machine Revenue Growth 2021-2026 (\$ millions)

Figure 55. China Taiwan Brown Oxide Treatment Machine Revenue Growth 2021-2026 (\$ millions)

Figure 56. Europe Brown Oxide Treatment Machine Sales Market Share by Country in 2026

Figure 57. Europe Brown Oxide Treatment Machine Revenue Market Share by Country (2021-2026)

Figure 58. Europe Brown Oxide Treatment Machine Sales Market Share by Type (2021-2026)

Figure 59. Europe Brown Oxide Treatment Machine Sales Market Share by Application (2021-2026)

Figure 60. Germany Brown Oxide Treatment Machine Revenue Growth 2021-2026 (\$ millions)

Figure 61. France Brown Oxide Treatment Machine Revenue Growth 2021-2026 (\$ millions)

Figure 62. UK Brown Oxide Treatment Machine Revenue Growth 2021-2026 (\$ millions)

Figure 63. Italy Brown Oxide Treatment Machine Revenue Growth 2021-2026 (\$ millions)

Figure 64. Russia Brown Oxide Treatment Machine Revenue Growth 2021-2026 (\$ millions)

Figure 65. Middle East & Africa Brown Oxide Treatment Machine Sales Market Share by Country (2021-2026)

Figure 66. Middle East & Africa Brown Oxide Treatment Machine Sales Market Share by Type (2021-2026)

Figure 67. Middle East & Africa Brown Oxide Treatment Machine Sales Market Share by Application (2021-2026)

Figure 68. Egypt Brown Oxide Treatment Machine Revenue Growth 2021-2026 (\$ millions)

Figure 69. South Africa Brown Oxide Treatment Machine Revenue Growth 2021-2026 (\$ millions)

Figure 70. Israel Brown Oxide Treatment Machine Revenue Growth 2021-2026 (\$ millions)

Figure 71. Turkey Brown Oxide Treatment Machine Revenue Growth 2021-2026 (\$ millions)

Figure 72. GCC Countries Brown Oxide Treatment Machine Revenue Growth 2021-2026 (\$ millions)

Figure 73. Manufacturing Cost Structure Analysis of Brown Oxide Treatment Machine in 2026

Figure 74. Manufacturing Process Analysis of Brown Oxide Treatment Machine

Figure 75. Industry Chain Structure of Brown Oxide Treatment Machine

Figure 76. Channels of Distribution

Figure 77. Global Brown Oxide Treatment Machine Sales Market Forecast by Region (2027-2032)

Figure 78. Global Brown Oxide Treatment Machine Revenue Market Share Forecast by Region (2027-2032)

Figure 79. Global Brown Oxide Treatment Machine Sales Market Share Forecast by Type (2027-2032)

Figure 80. Global Brown Oxide Treatment Machine Revenue Market Share Forecast by Type (2027-2032)

Figure 81. Global Brown Oxide Treatment Machine Sales Market Share Forecast by Application (2027-2032)

Figure 82. Global Brown Oxide Treatment Machine Revenue Market Share Forecast by Application (2027-2032)

I would like to order

Product name: Global Brown Oxide Treatment Machine Market Growth 2026-2032

Product link: <https://marketpublishers.com/r/G0960238D8F5EN.html>

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

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G0960238D8F5EN.html>