

# Global Copper Foil Surface Treatment Machine Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Copper Foil Surface Treatment Machine market size was valued at US\$ 250 million in 2025 and is forecast to a readjusted size of US\$ 336 million by 2032 with a CAGR of 4.4% during review period.

A copper foil surface treatment machine is an industrial device used to modify the surface of copper foil and enhance its adhesion. It is primarily used in the electronics, electrical, and printed circuit board (PCB) manufacturing industries. Its core function is to adjust the microstructure or chemically modify the surface of the copper foil through processes such as chemical treatment, acid etching, micro-roughening, or coating, thereby improving the adhesion, solderability, and corrosion resistance of the copper foil to the resin substrate.

This equipment typically includes modules such as a conveyor system, chemical bath, dip-coating or spray-coating device, and drying and oven system, enabling a high-precision, continuous surface treatment process. Copper foil surface treatment processes can be categorized into micro-etching, activation, and coating treatments to accommodate different copper foil thicknesses, specifications, and application requirements. By using copper foil surface treatment machines, manufacturers can improve the reliability, conductivity, and mechanical adhesion of PCB products, meeting the demands of advanced electronic products such as high-frequency, high-speed circuits, high-density interconnects (HDI), and flexible printed circuit boards (FPC).

The upstream sector primarily includes suppliers of stainless steel structural components, corrosion-resistant pumps and valves, transmission systems, PLC control

systems, motors, power supply equipment, and chemical solutions (acids, roughening agents, coating materials, etc.). These components and materials determine the stability, precision, and corrosion resistance of the equipment. The midstream sector comprises copper foil surface treatment machine manufacturers and complete line integrators, responsible for equipment design, automated control integration, and continuous processing system manufacturing. Core processes include micro-etching, roughening, passivation, and coating treatments. The downstream sector mainly serves manufacturers of lithium-ion battery copper foil, PCB copper foil, electronic circuits, high-frequency high-speed copper clad laminates (CCL), flexible printed circuit boards (FPC), and new energy battery materials.

In 2025, global sales of copper foil surface treatment machines reached 690 units, with a production capacity of approximately 1000 units. The average selling price was US\$352,000 per unit, and the average gross profit margin was 25%-35%.

The ultimate demand for copper foil surface treatment machines primarily stems from the expansion of copper foil manufacturers and their downstream applications. On one hand, the explosive growth in demand for high-performance electrolytic copper foil from new energy vehicle power batteries and energy storage batteries has driven strong demand for copper foil surface treatment machines, crucial equipment for improving the adhesion and quality of copper foil to resin substrates. On the other hand, the continued growth of the high-speed, high-frequency PCB (high-density interconnect boards, 5G communication substrates, etc.) and flexible printed circuit board (FPC) markets is also expanding the rigid demand for high-quality surface treatment equipment. Overall, the rapid expansion of these downstream sectors is the core driver of the growth in the copper foil surface treatment machine market.

In terms of products and technology, copper foil surface treatment machines are evolving from 'traditional chemical roughening + manual monitoring' to 'high-precision automatic control + digital visualization management.' Early equipment mainly relied on chemical parameter control for pickling, roughening, and activation, resulting in low automation. In recent years, with the integration of industrial automation and intelligent manufacturing technologies, more manufacturers have begun to adopt PLC/industrial Ethernet control, online temperature and pH monitoring, visual recognition, and automatic process adjustment, significantly improving processing stability, yield, and energy efficiency. In addition, with the increasing demand for copper foils with high adhesion and high consistency, micro-nano structure roughening and functional surface coating technology have also become new research and development directions.

This report is a detailed and comprehensive analysis for global Copper Foil Surface Treatment Machine market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

#### Key Features:

Global Copper Foil Surface Treatment Machine market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Copper Foil Surface Treatment Machine market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Copper Foil Surface Treatment Machine market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Copper Foil Surface Treatment Machine market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

#### The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Copper Foil Surface Treatment Machine
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Copper Foil Surface Treatment Machine market based on the following parameters - company overview, sales quantity, revenue,

price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include MIFUNE Corporation, Tex Technology, Nishi Industrial, Ikuta, PNT, Taijin Xinneng, KOTA Technology, Shaanxi Baoyu, Shuojin Energy, WISE, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## Market Segmentation

Copper Foil Surface Treatment Machine market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Chemical Roughening Type

Physical Modification Type

Coating Treatment Type

### Market segment by Copper Foil Thickness

?100 $\mu$ m

?100 $\mu$ m

### Market segment by Mechanical Speed

?40m/min

?40m/min

## Market segment by Application

Printed Circuit Boards

Lithium-Ion Batteries

High-Frequency Communication

Electromagnetic Shielding

Flexible Electronics

Other

## Major players covered

MIFUNE Corporation

Tex Technology

Nishi Industrial

Ikuta

PNT

Taijin Xinneng

KOTA Technology

Shaanxi Baoyu

Shuojin Energy

WISE

Chemcut

Technic

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Copper Foil Surface Treatment Machine product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Copper Foil Surface Treatment Machine, with price, sales quantity, revenue, and global market share of Copper Foil Surface Treatment Machine from 2021 to 2026.

Chapter 3, the Copper Foil Surface Treatment Machine competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Copper Foil Surface Treatment Machine breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021

to 2026.and Copper Foil Surface Treatment Machine market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Copper Foil Surface Treatment Machine.

Chapter 14 and 15, to describe Copper Foil Surface Treatment Machine sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Copper Foil Surface Treatment Machine Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Chemical Roughening Type

1.3.3 Physical Modification Type

1.3.4 Coating Treatment Type

1.4 Market Analysis by Copper Foil Thickness

1.4.1 Overview: Global Copper Foil Surface Treatment Machine Consumption Value by Copper Foil Thickness: 2021 Versus 2025 Versus 2032

1.4.2 >100µm

1.4.3 <100µm

1.5 Market Analysis by Mechanical Speed

1.5.1 Overview: Global Copper Foil Surface Treatment Machine Consumption Value by Mechanical Speed: 2021 Versus 2025 Versus 2032

1.5.2 >40m/min

1.5.3 <40m/min

1.6 Market Analysis by Application

1.6.1 Overview: Global Copper Foil Surface Treatment Machine Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Printed Circuit Boards

1.6.3 Lithium-Ion Batteries

1.6.4 High-Frequency Communication

1.6.5 Electromagnetic Shielding

1.6.6 Flexible Electronics

1.6.7 Other

1.7 Global Copper Foil Surface Treatment Machine Market Size & Forecast

1.7.1 Global Copper Foil Surface Treatment Machine Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Copper Foil Surface Treatment Machine Sales Quantity (2021-2032)

1.7.3 Global Copper Foil Surface Treatment Machine Average Price (2021-2032)

### 2 MANUFACTURERS PROFILES

## 2.1 MIFUNE Corporation

2.1.1 MIFUNE Corporation Details

2.1.2 MIFUNE Corporation Major Business

2.1.3 MIFUNE Corporation Copper Foil Surface Treatment Machine Product and Services

2.1.4 MIFUNE Corporation Copper Foil Surface Treatment Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 MIFUNE Corporation Recent Developments/Updates

## 2.2 Tex Technology

2.2.1 Tex Technology Details

2.2.2 Tex Technology Major Business

2.2.3 Tex Technology Copper Foil Surface Treatment Machine Product and Services

2.2.4 Tex Technology Copper Foil Surface Treatment Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Tex Technology Recent Developments/Updates

## 2.3 Nishi Industrial

2.3.1 Nishi Industrial Details

2.3.2 Nishi Industrial Major Business

2.3.3 Nishi Industrial Copper Foil Surface Treatment Machine Product and Services

2.3.4 Nishi Industrial Copper Foil Surface Treatment Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Nishi Industrial Recent Developments/Updates

## 2.4 Ikuta

2.4.1 Ikuta Details

2.4.2 Ikuta Major Business

2.4.3 Ikuta Copper Foil Surface Treatment Machine Product and Services

2.4.4 Ikuta Copper Foil Surface Treatment Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Ikuta Recent Developments/Updates

## 2.5 PNT

2.5.1 PNT Details

2.5.2 PNT Major Business

2.5.3 PNT Copper Foil Surface Treatment Machine Product and Services

2.5.4 PNT Copper Foil Surface Treatment Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 PNT Recent Developments/Updates

## 2.6 Taijin Xinneng

2.6.1 Taijin Xinneng Details

2.6.2 Taijin Xinneng Major Business

- 2.6.3 Taijin Xinneng Copper Foil Surface Treatment Machine Product and Services
- 2.6.4 Taijin Xinneng Copper Foil Surface Treatment Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.6.5 Taijin Xinneng Recent Developments/Updates
- 2.7 KOTA Technology
  - 2.7.1 KOTA Technology Details
  - 2.7.2 KOTA Technology Major Business
  - 2.7.3 KOTA Technology Copper Foil Surface Treatment Machine Product and Services
  - 2.7.4 KOTA Technology Copper Foil Surface Treatment Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.7.5 KOTA Technology Recent Developments/Updates
- 2.8 Shaanxi Baoyu
  - 2.8.1 Shaanxi Baoyu Details
  - 2.8.2 Shaanxi Baoyu Major Business
  - 2.8.3 Shaanxi Baoyu Copper Foil Surface Treatment Machine Product and Services
  - 2.8.4 Shaanxi Baoyu Copper Foil Surface Treatment Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.8.5 Shaanxi Baoyu Recent Developments/Updates
- 2.9 Shuojin Energy
  - 2.9.1 Shuojin Energy Details
  - 2.9.2 Shuojin Energy Major Business
  - 2.9.3 Shuojin Energy Copper Foil Surface Treatment Machine Product and Services
  - 2.9.4 Shuojin Energy Copper Foil Surface Treatment Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.9.5 Shuojin Energy Recent Developments/Updates
- 2.10 WISE
  - 2.10.1 WISE Details
  - 2.10.2 WISE Major Business
  - 2.10.3 WISE Copper Foil Surface Treatment Machine Product and Services
  - 2.10.4 WISE Copper Foil Surface Treatment Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.10.5 WISE Recent Developments/Updates
- 2.11 Chemcut
  - 2.11.1 Chemcut Details
  - 2.11.2 Chemcut Major Business
  - 2.11.3 Chemcut Copper Foil Surface Treatment Machine Product and Services
  - 2.11.4 Chemcut Copper Foil Surface Treatment Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

- 2.11.5 Chemcut Recent Developments/Updates
- 2.12 Technic
  - 2.12.1 Technic Details
  - 2.12.2 Technic Major Business
  - 2.12.3 Technic Copper Foil Surface Treatment Machine Product and Services
  - 2.12.4 Technic Copper Foil Surface Treatment Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.12.5 Technic Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: COPPER FOIL SURFACE TREATMENT MACHINE BY MANUFACTURER**

- 3.1 Global Copper Foil Surface Treatment Machine Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Copper Foil Surface Treatment Machine Revenue by Manufacturer (2021-2026)
- 3.3 Global Copper Foil Surface Treatment Machine Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
  - 3.4.1 Producer Shipments of Copper Foil Surface Treatment Machine by Manufacturer Revenue (\$MM) and Market Share (%): 2025
  - 3.4.2 Top 3 Copper Foil Surface Treatment Machine Manufacturer Market Share in 2025
  - 3.4.3 Top 6 Copper Foil Surface Treatment Machine Manufacturer Market Share in 2025
- 3.5 Copper Foil Surface Treatment Machine Market: Overall Company Footprint Analysis
  - 3.5.1 Copper Foil Surface Treatment Machine Market: Region Footprint
  - 3.5.2 Copper Foil Surface Treatment Machine Market: Company Product Type Footprint
  - 3.5.3 Copper Foil Surface Treatment Machine Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

### **4 CONSUMPTION ANALYSIS BY REGION**

- 4.1 Global Copper Foil Surface Treatment Machine Market Size by Region
  - 4.1.1 Global Copper Foil Surface Treatment Machine Sales Quantity by Region

(2021-2032)

4.1.2 Global Copper Foil Surface Treatment Machine Consumption Value by Region  
(2021-2032)

4.1.3 Global Copper Foil Surface Treatment Machine Average Price by Region  
(2021-2032)

4.2 North America Copper Foil Surface Treatment Machine Consumption Value  
(2021-2032)

4.3 Europe Copper Foil Surface Treatment Machine Consumption Value (2021-2032)

4.4 Asia-Pacific Copper Foil Surface Treatment Machine Consumption Value  
(2021-2032)

4.5 South America Copper Foil Surface Treatment Machine Consumption Value  
(2021-2032)

4.6 Middle East & Africa Copper Foil Surface Treatment Machine Consumption Value  
(2021-2032)

## **5 MARKET SEGMENT BY TYPE**

5.1 Global Copper Foil Surface Treatment Machine Sales Quantity by Type (2021-2032)

5.2 Global Copper Foil Surface Treatment Machine Consumption Value by Type  
(2021-2032)

5.3 Global Copper Foil Surface Treatment Machine Average Price by Type (2021-2032)

## **6 MARKET SEGMENT BY APPLICATION**

6.1 Global Copper Foil Surface Treatment Machine Sales Quantity by Application  
(2021-2032)

6.2 Global Copper Foil Surface Treatment Machine Consumption Value by Application  
(2021-2032)

6.3 Global Copper Foil Surface Treatment Machine Average Price by Application  
(2021-2032)

## **7 NORTH AMERICA**

7.1 North America Copper Foil Surface Treatment Machine Sales Quantity by Type  
(2021-2032)

7.2 North America Copper Foil Surface Treatment Machine Sales Quantity by  
Application (2021-2032)

7.3 North America Copper Foil Surface Treatment Machine Market Size by Country

7.3.1 North America Copper Foil Surface Treatment Machine Sales Quantity by

Country (2021-2032)

7.3.2 North America Copper Foil Surface Treatment Machine Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

## **8 EUROPE**

8.1 Europe Copper Foil Surface Treatment Machine Sales Quantity by Type (2021-2032)

8.2 Europe Copper Foil Surface Treatment Machine Sales Quantity by Application (2021-2032)

8.3 Europe Copper Foil Surface Treatment Machine Market Size by Country

8.3.1 Europe Copper Foil Surface Treatment Machine Sales Quantity by Country (2021-2032)

8.3.2 Europe Copper Foil Surface Treatment Machine Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

## **9 ASIA-PACIFIC**

9.1 Asia-Pacific Copper Foil Surface Treatment Machine Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Copper Foil Surface Treatment Machine Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Copper Foil Surface Treatment Machine Market Size by Region

9.3.1 Asia-Pacific Copper Foil Surface Treatment Machine Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Copper Foil Surface Treatment Machine Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

## **10 SOUTH AMERICA**

10.1 South America Copper Foil Surface Treatment Machine Sales Quantity by Type (2021-2032)

10.2 South America Copper Foil Surface Treatment Machine Sales Quantity by Application (2021-2032)

10.3 South America Copper Foil Surface Treatment Machine Market Size by Country

10.3.1 South America Copper Foil Surface Treatment Machine Sales Quantity by Country (2021-2032)

10.3.2 South America Copper Foil Surface Treatment Machine Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

## **11 MIDDLE EAST & AFRICA**

11.1 Middle East & Africa Copper Foil Surface Treatment Machine Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Copper Foil Surface Treatment Machine Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Copper Foil Surface Treatment Machine Market Size by Country

11.3.1 Middle East & Africa Copper Foil Surface Treatment Machine Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Copper Foil Surface Treatment Machine Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

## **12 MARKET DYNAMICS**

12.1 Copper Foil Surface Treatment Machine Market Drivers

12.2 Copper Foil Surface Treatment Machine Market Restraints

12.3 Copper Foil Surface Treatment Machine Trends Analysis

## 12.4 Porters Five Forces Analysis

- 12.4.1 Threat of New Entrants
- 12.4.2 Bargaining Power of Suppliers
- 12.4.3 Bargaining Power of Buyers
- 12.4.4 Threat of Substitutes
- 12.4.5 Competitive Rivalry

## 13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Copper Foil Surface Treatment Machine and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Copper Foil Surface Treatment Machine
- 13.3 Copper Foil Surface Treatment Machine Production Process
- 13.4 Industry Value Chain Analysis

## 14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
  - 14.1.1 Direct to End-User
  - 14.1.2 Distributors
- 14.2 Copper Foil Surface Treatment Machine Typical Distributors
- 14.3 Copper Foil Surface Treatment Machine Typical Customers

## 15 RESEARCH FINDINGS AND CONCLUSION

## 16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. Global Copper Foil Surface Treatment Machine Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Copper Foil Surface Treatment Machine Consumption Value by Copper Foil Thickness, (USD Million), 2021 & 2025 & 2032

Table 3. Global Copper Foil Surface Treatment Machine Consumption Value by Mechanical Speed, (USD Million), 2021 & 2025 & 2032

Table 4. Global Copper Foil Surface Treatment Machine Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. MIFUNE Corporation Basic Information, Manufacturing Base and Competitors

Table 6. MIFUNE Corporation Major Business

Table 7. MIFUNE Corporation Copper Foil Surface Treatment Machine Product and Services

Table 8. MIFUNE Corporation Copper Foil Surface Treatment Machine Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. MIFUNE Corporation Recent Developments/Updates

Table 10. Tex Technology Basic Information, Manufacturing Base and Competitors

Table 11. Tex Technology Major Business

Table 12. Tex Technology Copper Foil Surface Treatment Machine Product and Services

Table 13. Tex Technology Copper Foil Surface Treatment Machine Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Tex Technology Recent Developments/Updates

Table 15. Nishi Industrial Basic Information, Manufacturing Base and Competitors

Table 16. Nishi Industrial Major Business

Table 17. Nishi Industrial Copper Foil Surface Treatment Machine Product and Services

Table 18. Nishi Industrial Copper Foil Surface Treatment Machine Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Nishi Industrial Recent Developments/Updates

Table 20. Ikuta Basic Information, Manufacturing Base and Competitors

Table 21. Ikuta Major Business

Table 22. Ikuta Copper Foil Surface Treatment Machine Product and Services

Table 23. Ikuta Copper Foil Surface Treatment Machine Sales Quantity (Units), Average

Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Ikuta Recent Developments/Updates

Table 25. PNT Basic Information, Manufacturing Base and Competitors

Table 26. PNT Major Business

Table 27. PNT Copper Foil Surface Treatment Machine Product and Services

Table 28. PNT Copper Foil Surface Treatment Machine Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. PNT Recent Developments/Updates

Table 30. Taijin Xinneng Basic Information, Manufacturing Base and Competitors

Table 31. Taijin Xinneng Major Business

Table 32. Taijin Xinneng Copper Foil Surface Treatment Machine Product and Services

Table 33. Taijin Xinneng Copper Foil Surface Treatment Machine Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Taijin Xinneng Recent Developments/Updates

Table 35. KOTA Technology Basic Information, Manufacturing Base and Competitors

Table 36. KOTA Technology Major Business

Table 37. KOTA Technology Copper Foil Surface Treatment Machine Product and Services

Table 38. KOTA Technology Copper Foil Surface Treatment Machine Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. KOTA Technology Recent Developments/Updates

Table 40. Shaanxi Baoyu Basic Information, Manufacturing Base and Competitors

Table 41. Shaanxi Baoyu Major Business

Table 42. Shaanxi Baoyu Copper Foil Surface Treatment Machine Product and Services

Table 43. Shaanxi Baoyu Copper Foil Surface Treatment Machine Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Shaanxi Baoyu Recent Developments/Updates

Table 45. Shuojin Energy Basic Information, Manufacturing Base and Competitors

Table 46. Shuojin Energy Major Business

Table 47. Shuojin Energy Copper Foil Surface Treatment Machine Product and Services

Table 48. Shuojin Energy Copper Foil Surface Treatment Machine Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market

Share (2021-2026)

Table 49. Shuojin Energy Recent Developments/Updates

Table 50. WISE Basic Information, Manufacturing Base and Competitors

Table 51. WISE Major Business

Table 52. WISE Copper Foil Surface Treatment Machine Product and Services

Table 53. WISE Copper Foil Surface Treatment Machine Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. WISE Recent Developments/Updates

Table 55. Chemcut Basic Information, Manufacturing Base and Competitors

Table 56. Chemcut Major Business

Table 57. Chemcut Copper Foil Surface Treatment Machine Product and Services

Table 58. Chemcut Copper Foil Surface Treatment Machine Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. Chemcut Recent Developments/Updates

Table 60. Technic Basic Information, Manufacturing Base and Competitors

Table 61. Technic Major Business

Table 62. Technic Copper Foil Surface Treatment Machine Product and Services

Table 63. Technic Copper Foil Surface Treatment Machine Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. Technic Recent Developments/Updates

Table 65. Global Copper Foil Surface Treatment Machine Sales Quantity by Manufacturer (2021-2026) & (Units)

Table 66. Global Copper Foil Surface Treatment Machine Revenue by Manufacturer (2021-2026) & (USD Million)

Table 67. Global Copper Foil Surface Treatment Machine Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 68. Market Position of Manufacturers in Copper Foil Surface Treatment Machine, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 69. Head Office and Copper Foil Surface Treatment Machine Production Site of Key Manufacturer

Table 70. Copper Foil Surface Treatment Machine Market: Company Product Type Footprint

Table 71. Copper Foil Surface Treatment Machine Market: Company Product Application Footprint

Table 72. Copper Foil Surface Treatment Machine New Market Entrants and Barriers to Market Entry

Table 73. Copper Foil Surface Treatment Machine Mergers, Acquisition, Agreements, and Collaborations

Table 74. Global Copper Foil Surface Treatment Machine Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 75. Global Copper Foil Surface Treatment Machine Sales Quantity by Region (2021-2026) & (Units)

Table 76. Global Copper Foil Surface Treatment Machine Sales Quantity by Region (2027-2032) & (Units)

Table 77. Global Copper Foil Surface Treatment Machine Consumption Value by Region (2021-2026) & (USD Million)

Table 78. Global Copper Foil Surface Treatment Machine Consumption Value by Region (2027-2032) & (USD Million)

Table 79. Global Copper Foil Surface Treatment Machine Average Price by Region (2021-2026) & (K US\$/Unit)

Table 80. Global Copper Foil Surface Treatment Machine Average Price by Region (2027-2032) & (K US\$/Unit)

Table 81. Global Copper Foil Surface Treatment Machine Sales Quantity by Type (2021-2026) & (Units)

Table 82. Global Copper Foil Surface Treatment Machine Sales Quantity by Type (2027-2032) & (Units)

Table 83. Global Copper Foil Surface Treatment Machine Consumption Value by Type (2021-2026) & (USD Million)

Table 84. Global Copper Foil Surface Treatment Machine Consumption Value by Type (2027-2032) & (USD Million)

Table 85. Global Copper Foil Surface Treatment Machine Average Price by Type (2021-2026) & (K US\$/Unit)

Table 86. Global Copper Foil Surface Treatment Machine Average Price by Type (2027-2032) & (K US\$/Unit)

Table 87. Global Copper Foil Surface Treatment Machine Sales Quantity by Application (2021-2026) & (Units)

Table 88. Global Copper Foil Surface Treatment Machine Sales Quantity by Application (2027-2032) & (Units)

Table 89. Global Copper Foil Surface Treatment Machine Consumption Value by Application (2021-2026) & (USD Million)

Table 90. Global Copper Foil Surface Treatment Machine Consumption Value by Application (2027-2032) & (USD Million)

Table 91. Global Copper Foil Surface Treatment Machine Average Price by Application (2021-2026) & (K US\$/Unit)

Table 92. Global Copper Foil Surface Treatment Machine Average Price by Application

(2027-2032) & (K US\$/Unit)

Table 93. North America Copper Foil Surface Treatment Machine Sales Quantity by Type (2021-2026) & (Units)

Table 94. North America Copper Foil Surface Treatment Machine Sales Quantity by Type (2027-2032) & (Units)

Table 95. North America Copper Foil Surface Treatment Machine Sales Quantity by Application (2021-2026) & (Units)

Table 96. North America Copper Foil Surface Treatment Machine Sales Quantity by Application (2027-2032) & (Units)

Table 97. North America Copper Foil Surface Treatment Machine Sales Quantity by Country (2021-2026) & (Units)

Table 98. North America Copper Foil Surface Treatment Machine Sales Quantity by Country (2027-2032) & (Units)

Table 99. North America Copper Foil Surface Treatment Machine Consumption Value by Country (2021-2026) & (USD Million)

Table 100. North America Copper Foil Surface Treatment Machine Consumption Value by Country (2027-2032) & (USD Million)

Table 101. Europe Copper Foil Surface Treatment Machine Sales Quantity by Type (2021-2026) & (Units)

Table 102. Europe Copper Foil Surface Treatment Machine Sales Quantity by Type (2027-2032) & (Units)

Table 103. Europe Copper Foil Surface Treatment Machine Sales Quantity by Application (2021-2026) & (Units)

Table 104. Europe Copper Foil Surface Treatment Machine Sales Quantity by Application (2027-2032) & (Units)

Table 105. Europe Copper Foil Surface Treatment Machine Sales Quantity by Country (2021-2026) & (Units)

Table 106. Europe Copper Foil Surface Treatment Machine Sales Quantity by Country (2027-2032) & (Units)

Table 107. Europe Copper Foil Surface Treatment Machine Consumption Value by Country (2021-2026) & (USD Million)

Table 108. Europe Copper Foil Surface Treatment Machine Consumption Value by Country (2027-2032) & (USD Million)

Table 109. Asia-Pacific Copper Foil Surface Treatment Machine Sales Quantity by Type (2021-2026) & (Units)

Table 110. Asia-Pacific Copper Foil Surface Treatment Machine Sales Quantity by Type (2027-2032) & (Units)

Table 111. Asia-Pacific Copper Foil Surface Treatment Machine Sales Quantity by Application (2021-2026) & (Units)

Table 112. Asia-Pacific Copper Foil Surface Treatment Machine Sales Quantity by Application (2027-2032) & (Units)

Table 113. Asia-Pacific Copper Foil Surface Treatment Machine Sales Quantity by Region (2021-2026) & (Units)

Table 114. Asia-Pacific Copper Foil Surface Treatment Machine Sales Quantity by Region (2027-2032) & (Units)

Table 115. Asia-Pacific Copper Foil Surface Treatment Machine Consumption Value by Region (2021-2026) & (USD Million)

Table 116. Asia-Pacific Copper Foil Surface Treatment Machine Consumption Value by Region (2027-2032) & (USD Million)

Table 117. South America Copper Foil Surface Treatment Machine Sales Quantity by Type (2021-2026) & (Units)

Table 118. South America Copper Foil Surface Treatment Machine Sales Quantity by Type (2027-2032) & (Units)

Table 119. South America Copper Foil Surface Treatment Machine Sales Quantity by Application (2021-2026) & (Units)

Table 120. South America Copper Foil Surface Treatment Machine Sales Quantity by Application (2027-2032) & (Units)

Table 121. South America Copper Foil Surface Treatment Machine Sales Quantity by Country (2021-2026) & (Units)

Table 122. South America Copper Foil Surface Treatment Machine Sales Quantity by Country (2027-2032) & (Units)

Table 123. South America Copper Foil Surface Treatment Machine Consumption Value by Country (2021-2026) & (USD Million)

Table 124. South America Copper Foil Surface Treatment Machine Consumption Value by Country (2027-2032) & (USD Million)

Table 125. Middle East & Africa Copper Foil Surface Treatment Machine Sales Quantity by Type (2021-2026) & (Units)

Table 126. Middle East & Africa Copper Foil Surface Treatment Machine Sales Quantity by Type (2027-2032) & (Units)

Table 127. Middle East & Africa Copper Foil Surface Treatment Machine Sales Quantity by Application (2021-2026) & (Units)

Table 128. Middle East & Africa Copper Foil Surface Treatment Machine Sales Quantity by Application (2027-2032) & (Units)

Table 129. Middle East & Africa Copper Foil Surface Treatment Machine Sales Quantity by Country (2021-2026) & (Units)

Table 130. Middle East & Africa Copper Foil Surface Treatment Machine Sales Quantity by Country (2027-2032) & (Units)

Table 131. Middle East & Africa Copper Foil Surface Treatment Machine Consumption

Value by Country (2021-2026) & (USD Million)

Table 132. Middle East & Africa Copper Foil Surface Treatment Machine Consumption

Value by Country (2027-2032) & (USD Million)

Table 133. Copper Foil Surface Treatment Machine Raw Material

Table 134. Key Manufacturers of Copper Foil Surface Treatment Machine Raw Materials

Table 135. Copper Foil Surface Treatment Machine Typical Distributors

Table 136. Copper Foil Surface Treatment Machine Typical Customers

## List Of Figures

### LIST OF FIGURES

- Figure 1. Copper Foil Surface Treatment Machine Picture
- Figure 2. Global Copper Foil Surface Treatment Machine Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Copper Foil Surface Treatment Machine Revenue Market Share by Type in 2025
- Figure 4. Chemical Roughening Type Examples
- Figure 5. Physical Modification Type Examples
- Figure 6. Coating Treatment Type Examples
- Figure 7. Global Copper Foil Surface Treatment Machine Revenue by Copper Foil Thickness, (USD Million), 2021 & 2025 & 2032
- Figure 8. Global Copper Foil Surface Treatment Machine Revenue Market Share by Copper Foil Thickness in 2025
- Figure 9. >100µm Examples
- Figure 10. >100µm Examples
- Figure 11. Global Copper Foil Surface Treatment Machine Revenue by Mechanical Speed, (USD Million), 2021 & 2025 & 2032
- Figure 12. Global Copper Foil Surface Treatment Machine Revenue Market Share by Mechanical Speed in 2025
- Figure 13. >40m/min Examples
- Figure 14. >40m/min Examples
- Figure 15. Global Copper Foil Surface Treatment Machine Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 16. Global Copper Foil Surface Treatment Machine Revenue Market Share by Application in 2025
- Figure 17. Printed Circuit Boards Examples
- Figure 18. Lithium-Ion Batteries Examples
- Figure 19. High-Frequency Communication Examples
- Figure 20. Electromagnetic Shielding Examples
- Figure 21. Flexible Electronics Examples
- Figure 22. Other Examples
- Figure 23. Global Copper Foil Surface Treatment Machine Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 24. Global Copper Foil Surface Treatment Machine Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 25. Global Copper Foil Surface Treatment Machine Sales Quantity (2021-2032)

& (Units)

Figure 26. Global Copper Foil Surface Treatment Machine Price (2021-2032) & (K US\$/Unit)

Figure 27. Global Copper Foil Surface Treatment Machine Sales Quantity Market Share by Manufacturer in 2025

Figure 28. Global Copper Foil Surface Treatment Machine Revenue Market Share by Manufacturer in 2025

Figure 29. Producer Shipments of Copper Foil Surface Treatment Machine by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 30. Top 3 Copper Foil Surface Treatment Machine Manufacturer (Revenue) Market Share in 2025

Figure 31. Top 6 Copper Foil Surface Treatment Machine Manufacturer (Revenue) Market Share in 2025

Figure 32. Global Copper Foil Surface Treatment Machine Sales Quantity Market Share by Region (2021-2032)

Figure 33. Global Copper Foil Surface Treatment Machine Consumption Value Market Share by Region (2021-2032)

Figure 34. North America Copper Foil Surface Treatment Machine Consumption Value (2021-2032) & (USD Million)

Figure 35. Europe Copper Foil Surface Treatment Machine Consumption Value (2021-2032) & (USD Million)

Figure 36. Asia-Pacific Copper Foil Surface Treatment Machine Consumption Value (2021-2032) & (USD Million)

Figure 37. South America Copper Foil Surface Treatment Machine Consumption Value (2021-2032) & (USD Million)

Figure 38. Middle East & Africa Copper Foil Surface Treatment Machine Consumption Value (2021-2032) & (USD Million)

Figure 39. Global Copper Foil Surface Treatment Machine Sales Quantity Market Share by Type (2021-2032)

Figure 40. Global Copper Foil Surface Treatment Machine Consumption Value Market Share by Type (2021-2032)

Figure 41. Global Copper Foil Surface Treatment Machine Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 42. Global Copper Foil Surface Treatment Machine Sales Quantity Market Share by Application (2021-2032)

Figure 43. Global Copper Foil Surface Treatment Machine Revenue Market Share by Application (2021-2032)

Figure 44. Global Copper Foil Surface Treatment Machine Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 45. North America Copper Foil Surface Treatment Machine Sales Quantity Market Share by Type (2021-2032)

Figure 46. North America Copper Foil Surface Treatment Machine Sales Quantity Market Share by Application (2021-2032)

Figure 47. North America Copper Foil Surface Treatment Machine Sales Quantity Market Share by Country (2021-2032)

Figure 48. North America Copper Foil Surface Treatment Machine Consumption Value Market Share by Country (2021-2032)

Figure 49. United States Copper Foil Surface Treatment Machine Consumption Value (2021-2032) & (USD Million)

Figure 50. Canada Copper Foil Surface Treatment Machine Consumption Value (2021-2032) & (USD Million)

Figure 51. Mexico Copper Foil Surface Treatment Machine Consumption Value (2021-2032) & (USD Million)

Figure 52. Europe Copper Foil Surface Treatment Machine Sales Quantity Market Share by Type (2021-2032)

Figure 53. Europe Copper Foil Surface Treatment Machine Sales Quantity Market Share by Application (2021-2032)

Figure 54. Europe Copper Foil Surface Treatment Machine Sales Quantity Market Share by Country (2021-2032)

Figure 55. Europe Copper Foil Surface Treatment Machine Consumption Value Market Share by Country (2021-2032)

Figure 56. Germany Copper Foil Surface Treatment Machine Consumption Value (2021-2032) & (USD Million)

Figure 57. France Copper Foil Surface Treatment Machine Consumption Value (2021-2032) & (USD Million)

Figure 58. United Kingdom Copper Foil Surface Treatment Machine Consumption Value (2021-2032) & (USD Million)

Figure 59. Russia Copper Foil Surface Treatment Machine Consumption Value (2021-2032) & (USD Million)

Figure 60. Italy Copper Foil Surface Treatment Machine Consumption Value (2021-2032) & (USD Million)

Figure 61. Asia-Pacific Copper Foil Surface Treatment Machine Sales Quantity Market Share by Type (2021-2032)

Figure 62. Asia-Pacific Copper Foil Surface Treatment Machine Sales Quantity Market Share by Application (2021-2032)

Figure 63. Asia-Pacific Copper Foil Surface Treatment Machine Sales Quantity Market Share by Region (2021-2032)

Figure 64. Asia-Pacific Copper Foil Surface Treatment Machine Consumption Value

Market Share by Region (2021-2032)

Figure 65. China Copper Foil Surface Treatment Machine Consumption Value (2021-2032) & (USD Million)

Figure 66. Japan Copper Foil Surface Treatment Machine Consumption Value (2021-2032) & (USD Million)

Figure 67. South Korea Copper Foil Surface Treatment Machine Consumption Value (2021-2032) & (USD Million)

Figure 68. India Copper Foil Surface Treatment Machine Consumption Value (2021-2032) & (USD Million)

Figure 69. Southeast Asia Copper Foil Surface Treatment Machine Consumption Value (2021-2032) & (USD Million)

Figure 70. Australia Copper Foil Surface Treatment Machine Consumption Value (2021-2032) & (USD Million)

Figure 71. South America Copper Foil Surface Treatment Machine Sales Quantity Market Share by Type (2021-2032)

Figure 72. South America Copper Foil Surface Treatment Machine Sales Quantity Market Share by Application (2021-2032)

Figure 73. South America Copper Foil Surface Treatment Machine Sales Quantity Market Share by Country (2021-2032)

Figure 74. South America Copper Foil Surface Treatment Machine Consumption Value Market Share by Country (2021-2032)

Figure 75. Brazil Copper Foil Surface Treatment Machine Consumption Value (2021-2032) & (USD Million)

Figure 76. Argentina Copper Foil Surface Treatment Machine Consumption Value (2021-2032) & (USD Million)

Figure 77. Middle East & Africa Copper Foil Surface Treatment Machine Sales Quantity Market Share by Type (2021-2032)

Figure 78. Middle East & Africa Copper Foil Surface Treatment Machine Sales Quantity Market Share by Application (2021-2032)

Figure 79. Middle East & Africa Copper Foil Surface Treatment Machine Sales Quantity Market Share by Country (2021-2032)

Figure 80. Middle East & Africa Copper Foil Surface Treatment Machine Consumption Value Market Share by Country (2021-2032)

Figure 81. Turkey Copper Foil Surface Treatment Machine Consumption Value (2021-2032) & (USD Million)

Figure 82. Egypt Copper Foil Surface Treatment Machine Consumption Value (2021-2032) & (USD Million)

Figure 83. Saudi Arabia Copper Foil Surface Treatment Machine Consumption Value (2021-2032) & (USD Million)

Figure 84. South Africa Copper Foil Surface Treatment Machine Consumption Value (2021-2032) & (USD Million)

Figure 85. Copper Foil Surface Treatment Machine Market Drivers

Figure 86. Copper Foil Surface Treatment Machine Market Restraints

Figure 87. Copper Foil Surface Treatment Machine Market Trends

Figure 88. Porters Five Forces Analysis

Figure 89. Manufacturing Cost Structure Analysis of Copper Foil Surface Treatment Machine in 2025

Figure 90. Manufacturing Process Analysis of Copper Foil Surface Treatment Machine

Figure 91. Copper Foil Surface Treatment Machine Industrial Chain

Figure 92. Sales Channel: Direct to End-User vs Distributors

Figure 93. Direct Channel Pros & Cons

Figure 94. Indirect Channel Pros & Cons

Figure 95. Methodology

Figure 96. Research Process and Data Source

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