

Global Bipolar Plates Market Growth 2025-2031

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Abstracts

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The global Bipolar Plates market size is predicted to grow from US\$ 661 million in 2025 to US\$ 2286 million in 2031; it is expected to grow at a CAGR of 23.0% from 2025 to 2031.

Bipolar Plates are one of the core components of the fuel cells, which accounts for a large portion of the quality and cost of the battery pack. It is responsible for the functions of uniform distribution of reaction gas, conduction of current, and series of single cells. In order to meet these functional requirements, the ideal bipolar plate should have high thermal/electrical conductivity, corrosion resistance, low density, good mechanical properties, low cost, and easy processing. However, the current bipolar plates have problems such as poor corrosion resistance and conductivity, high production costs and short lifespan. Realizing the reasonable matching of the conductivity and corrosion resistance of the bipolar plate material, that is, achieving high corrosion resistance under the premise of ensuring reasonable conductivity, ensuring the service life of the entire system, is one of the key steps in the commercialization of fuel cells.

Bipolar plates (BPs) are the electrical connections between cells; typically, these are also used for distributing the fuel and the oxidant to anode and cathode, respectively. Consequently, these are subject to oxidizing conditions on one face and reducing conditions on the opposite one. Bipolar Plates are a key component in a fuel cell stack.

1. The representative players in global Bipolar Plates market are Dana, Shanghai Zhizhen, Schunk Group, Ballard and ElringKlinger, accounting for 48% market share in terms of revenues in 2023. Players are concentrated in North America, Europe and China. Many new entrants in recently years.

2. Regions Comparison

The representative production regions in this market are North America, Europe and China, with more than 70% market share in 2023 and representative consumption regions are North America, Europe and Asia-Pacific. China has great potential demand.

3. Product Classification

Bipolar Plates mainly includes Graphite, Metal, Composite materials. Graphite type accounts for 63% market share in terms of sales in 2023. Taking the manufacturing processing, raw material etc factors into consideration, Graphite type cost is low; while Metal and Composite types have mechanical performance, electric conductivity, strength etc advantages and will further replace Graphite type in the future.

4. Downstream Market

Bipolar Plates is mainly used in Transportation (e.g. Electric Vehicles), Stationary Power and Portable Power end products. By fuel cell type, including Proton Exchange Membrane Fuel Cells (PEMFC), Solid Oxide Fuel Cells (SOFC), Molten Carbonate Fuel Cells (MCFC), Phosphoric Acid Fuel Cells (PAFC). The representative application is Proton Exchange Membrane Fuel Cells (PEMFC), accounting for 71% market share in terms of sales in 2023.

5. Price

The price of Bipolar Plates differs from company to company, as there is a great difference in terms of technology, materials, performance etc. The average price is decreasing gradually, for continuous maturity of production technology.

The Bipolar Plates market has many aspects of drivers:

The increasing adoption of hydrogen fuel cells in transportation (e.g., buses, trucks, and passenger vehicles) is driving demand for bipolar plates, which are crucial for the fuel cell's operation.

The rising need for reliable backup power systems in various sectors, including telecom, data centers, and critical infrastructure, boosts the demand for fuel cells and, consequently, bipolar plates.

Also, governments worldwide are implementing policies and incentives to promote clean energy technologies and reduce greenhouse gas emissions. These policies support the growth of fuel cell technologies and the production of bipolar plates. Initiatives to build hydrogen production, distribution, and refueling infrastructure enhance the fuel cell market, thereby driving the bipolar plates market.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Bipolar Plates 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 Bipolar Plates.

This report presents a comprehensive overview, market shares, and growth opportunities of Bipolar Plates market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Graphite

Metal

Composite

Segmentation by Application:

Proton Exchange Membrane Fuel Cells (PEMFC)

Solid Oxide Fuel Cells (SOFC)

Molten Carbonate Fuel Cells (MCFC)

Phosphoric Acid Fuel Cells (PAFC)

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

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

Dana

Cell Impact

Schunk Group

Nisshinbo

FJ Composite

Ballard

ElringKlinger

VinaTech (Ace Creation)

LEADTECH International

SGL Carbon

Shanghai Hongfeng

Dongguan Jiecheng Graphite Products

Shanghai Hongjun

Shanghai Shenli

Shenzhen Jiayu

Anhui Mingtian

Guangdong Nation-Synergy

Hunan Zenpon

Shanghai Yoogle

Shanghai Zhizhen

Zhejiang Harog

Key Questions Addressed in this Report

What is the 10-year outlook for the global Bipolar Plates market?

What factors are driving Bipolar Plates market growth, globally and by region?

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

How do Bipolar Plates market opportunities vary by end market size?

How does Bipolar Plates 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 Bipolar Plates Annual Sales 2020-2031
 - 2.1.2 World Current & Future Analysis for Bipolar Plates by Geographic Region, 2020, 2024 & 2031
 - 2.1.3 World Current & Future Analysis for Bipolar Plates by Country/Region, 2020, 2024 & 2031
- 2.2 Bipolar Plates Segment by Type
 - 2.2.1 Graphite
 - 2.2.2 Metal
 - 2.2.3 Composite
- 2.3 Bipolar Plates Sales by Type
 - 2.3.1 Global Bipolar Plates Sales Market Share by Type (2020-2025)
 - 2.3.2 Global Bipolar Plates Revenue and Market Share by Type (2020-2025)
 - 2.3.3 Global Bipolar Plates Sale Price by Type (2020-2025)
- 2.4 Bipolar Plates Segment by Application
 - 2.4.1 Proton Exchange Membrane Fuel Cells (PEMFC)
 - 2.4.2 Solid Oxide Fuel Cells (SOFC)
 - 2.4.3 Molten Carbonate Fuel Cells (MCFC)
 - 2.4.4 Phosphoric Acid Fuel Cells (PAFC)
 - 2.4.5 Others
- 2.5 Bipolar Plates Sales by Application
 - 2.5.1 Global Bipolar Plates Sale Market Share by Application (2020-2025)
 - 2.5.2 Global Bipolar Plates Revenue and Market Share by Application (2020-2025)
 - 2.5.3 Global Bipolar Plates Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global Bipolar Plates Breakdown Data by Company

3.1.1 Global Bipolar Plates Annual Sales by Company (2020-2025)

3.1.2 Global Bipolar Plates Sales Market Share by Company (2020-2025)

3.2 Global Bipolar Plates Annual Revenue by Company (2020-2025)

3.2.1 Global Bipolar Plates Revenue by Company (2020-2025)

3.2.2 Global Bipolar Plates Revenue Market Share by Company (2020-2025)

3.3 Global Bipolar Plates Sale Price by Company

3.4 Key Manufacturers Bipolar Plates Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Bipolar Plates Product Location Distribution

3.4.2 Players Bipolar Plates 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 BIPOLAR PLATES BY GEOGRAPHIC REGION

4.1 World Historic Bipolar Plates Market Size by Geographic Region (2020-2025)

4.1.1 Global Bipolar Plates Annual Sales by Geographic Region (2020-2025)

4.1.2 Global Bipolar Plates Annual Revenue by Geographic Region (2020-2025)

4.2 World Historic Bipolar Plates Market Size by Country/Region (2020-2025)

4.2.1 Global Bipolar Plates Annual Sales by Country/Region (2020-2025)

4.2.2 Global Bipolar Plates Annual Revenue by Country/Region (2020-2025)

4.3 Americas Bipolar Plates Sales Growth

4.4 APAC Bipolar Plates Sales Growth

4.5 Europe Bipolar Plates Sales Growth

4.6 Middle East & Africa Bipolar Plates Sales Growth

5 AMERICAS

5.1 Americas Bipolar Plates Sales by Country

5.1.1 Americas Bipolar Plates Sales by Country (2020-2025)

5.1.2 Americas Bipolar Plates Revenue by Country (2020-2025)

5.2 Americas Bipolar Plates Sales by Type (2020-2025)

5.3 Americas Bipolar Plates Sales by Application (2020-2025)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Bipolar Plates Sales by Region

6.1.1 APAC Bipolar Plates Sales by Region (2020-2025)

6.1.2 APAC Bipolar Plates Revenue by Region (2020-2025)

6.2 APAC Bipolar Plates Sales by Type (2020-2025)

6.3 APAC Bipolar Plates 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 Bipolar Plates by Country

7.1.1 Europe Bipolar Plates Sales by Country (2020-2025)

7.1.2 Europe Bipolar Plates Revenue by Country (2020-2025)

7.2 Europe Bipolar Plates Sales by Type (2020-2025)

7.3 Europe Bipolar Plates 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 Bipolar Plates by Country

8.1.1 Middle East & Africa Bipolar Plates Sales by Country (2020-2025)

8.1.2 Middle East & Africa Bipolar Plates Revenue by Country (2020-2025)

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

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Bipolar Plates Distributors
- 11.3 Bipolar Plates Customer

12 WORLD FORECAST REVIEW FOR BIPOLAR PLATES BY GEOGRAPHIC REGION

- 12.1 Global Bipolar Plates Market Size Forecast by Region
 - 12.1.1 Global Bipolar Plates Forecast by Region (2026-2031)
 - 12.1.2 Global Bipolar Plates 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 Bipolar Plates Forecast by Type (2026-2031)

12.7 Global Bipolar Plates Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 Dana

13.1.1 Dana Company Information

13.1.2 Dana Bipolar Plates Product Portfolios and Specifications

13.1.3 Dana Bipolar Plates Sales, Revenue, Price and Gross Margin (2020-2025)

13.1.4 Dana Main Business Overview

13.1.5 Dana Latest Developments

13.2 Cell Impact

13.2.1 Cell Impact Company Information

13.2.2 Cell Impact Bipolar Plates Product Portfolios and Specifications

13.2.3 Cell Impact Bipolar Plates Sales, Revenue, Price and Gross Margin
(2020-2025)

13.2.4 Cell Impact Main Business Overview

13.2.5 Cell Impact Latest Developments

13.3 Schunk Group

13.3.1 Schunk Group Company Information

13.3.2 Schunk Group Bipolar Plates Product Portfolios and Specifications

13.3.3 Schunk Group Bipolar Plates Sales, Revenue, Price and Gross Margin
(2020-2025)

13.3.4 Schunk Group Main Business Overview

13.3.5 Schunk Group Latest Developments

13.4 Nisshinbo

13.4.1 Nisshinbo Company Information

13.4.2 Nisshinbo Bipolar Plates Product Portfolios and Specifications

13.4.3 Nisshinbo Bipolar Plates Sales, Revenue, Price and Gross Margin (2020-2025)

13.4.4 Nisshinbo Main Business Overview

13.4.5 Nisshinbo Latest Developments

13.5 FJ Composite

13.5.1 FJ Composite Company Information

13.5.2 FJ Composite Bipolar Plates Product Portfolios and Specifications

13.5.3 FJ Composite Bipolar Plates Sales, Revenue, Price and Gross Margin
(2020-2025)

13.5.4 FJ Composite Main Business Overview

13.5.5 FJ Composite Latest Developments

13.6 Ballard

- 13.6.1 Ballard Company Information
- 13.6.2 Ballard Bipolar Plates Product Portfolios and Specifications
- 13.6.3 Ballard Bipolar Plates Sales, Revenue, Price and Gross Margin (2020-2025)
- 13.6.4 Ballard Main Business Overview
- 13.6.5 Ballard Latest Developments
- 13.7 ElringKlinger
 - 13.7.1 ElringKlinger Company Information
 - 13.7.2 ElringKlinger Bipolar Plates Product Portfolios and Specifications
 - 13.7.3 ElringKlinger Bipolar Plates Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.7.4 ElringKlinger Main Business Overview
 - 13.7.5 ElringKlinger Latest Developments
- 13.8 VinaTech (Ace Creation)
 - 13.8.1 VinaTech (Ace Creation) Company Information
 - 13.8.2 VinaTech (Ace Creation) Bipolar Plates Product Portfolios and Specifications
 - 13.8.3 VinaTech (Ace Creation) Bipolar Plates Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.8.4 VinaTech (Ace Creation) Main Business Overview
 - 13.8.5 VinaTech (Ace Creation) Latest Developments
- 13.9 LEADTECH International
 - 13.9.1 LEADTECH International Company Information
 - 13.9.2 LEADTECH International Bipolar Plates Product Portfolios and Specifications
 - 13.9.3 LEADTECH International Bipolar Plates Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.9.4 LEADTECH International Main Business Overview
 - 13.9.5 LEADTECH International Latest Developments
- 13.10 SGL Carbon
 - 13.10.1 SGL Carbon Company Information
 - 13.10.2 SGL Carbon Bipolar Plates Product Portfolios and Specifications
 - 13.10.3 SGL Carbon Bipolar Plates Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.10.4 SGL Carbon Main Business Overview
 - 13.10.5 SGL Carbon Latest Developments
- 13.11 Shanghai Hongfeng
 - 13.11.1 Shanghai Hongfeng Company Information
 - 13.11.2 Shanghai Hongfeng Bipolar Plates Product Portfolios and Specifications
 - 13.11.3 Shanghai Hongfeng Bipolar Plates Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.11.4 Shanghai Hongfeng Main Business Overview

- 13.11.5 Shanghai Hongfeng Latest Developments
- 13.12 Dongguan Jiecheng Graphite Products
 - 13.12.1 Dongguan Jiecheng Graphite Products Company Information
 - 13.12.2 Dongguan Jiecheng Graphite Products Bipolar Plates Product Portfolios and Specifications
 - 13.12.3 Dongguan Jiecheng Graphite Products Bipolar Plates Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.12.4 Dongguan Jiecheng Graphite Products Main Business Overview
 - 13.12.5 Dongguan Jiecheng Graphite Products Latest Developments
- 13.13 Shanghai Hongjun
 - 13.13.1 Shanghai Hongjun Company Information
 - 13.13.2 Shanghai Hongjun Bipolar Plates Product Portfolios and Specifications
 - 13.13.3 Shanghai Hongjun Bipolar Plates Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.13.4 Shanghai Hongjun Main Business Overview
 - 13.13.5 Shanghai Hongjun Latest Developments
- 13.14 Shanghai Shenli
 - 13.14.1 Shanghai Shenli Company Information
 - 13.14.2 Shanghai Shenli Bipolar Plates Product Portfolios and Specifications
 - 13.14.3 Shanghai Shenli Bipolar Plates Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.14.4 Shanghai Shenli Main Business Overview
 - 13.14.5 Shanghai Shenli Latest Developments
- 13.15 Shenzhen Jiayu
 - 13.15.1 Shenzhen Jiayu Company Information
 - 13.15.2 Shenzhen Jiayu Bipolar Plates Product Portfolios and Specifications
 - 13.15.3 Shenzhen Jiayu Bipolar Plates Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.15.4 Shenzhen Jiayu Main Business Overview
 - 13.15.5 Shenzhen Jiayu Latest Developments
- 13.16 Anhui Mingtian
 - 13.16.1 Anhui Mingtian Company Information
 - 13.16.2 Anhui Mingtian Bipolar Plates Product Portfolios and Specifications
 - 13.16.3 Anhui Mingtian Bipolar Plates Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.16.4 Anhui Mingtian Main Business Overview
 - 13.16.5 Anhui Mingtian Latest Developments
- 13.17 Guangdong Nation-Synergy
 - 13.17.1 Guangdong Nation-Synergy Company Information

13.17.2 Guangdong Nation-Synergy Bipolar Plates Product Portfolios and Specifications

13.17.3 Guangdong Nation-Synergy Bipolar Plates Sales, Revenue, Price and Gross Margin (2020-2025)

13.17.4 Guangdong Nation-Synergy Main Business Overview

13.17.5 Guangdong Nation-Synergy Latest Developments

13.18 Hunan Zenpon

13.18.1 Hunan Zenpon Company Information

13.18.2 Hunan Zenpon Bipolar Plates Product Portfolios and Specifications

13.18.3 Hunan Zenpon Bipolar Plates Sales, Revenue, Price and Gross Margin (2020-2025)

13.18.4 Hunan Zenpon Main Business Overview

13.18.5 Hunan Zenpon Latest Developments

13.19 Shanghai Yoogle

13.19.1 Shanghai Yoogle Company Information

13.19.2 Shanghai Yoogle Bipolar Plates Product Portfolios and Specifications

13.19.3 Shanghai Yoogle Bipolar Plates Sales, Revenue, Price and Gross Margin (2020-2025)

13.19.4 Shanghai Yoogle Main Business Overview

13.19.5 Shanghai Yoogle Latest Developments

13.20 Shanghai Zhizhen

13.20.1 Shanghai Zhizhen Company Information

13.20.2 Shanghai Zhizhen Bipolar Plates Product Portfolios and Specifications

13.20.3 Shanghai Zhizhen Bipolar Plates Sales, Revenue, Price and Gross Margin (2020-2025)

13.20.4 Shanghai Zhizhen Main Business Overview

13.20.5 Shanghai Zhizhen Latest Developments

13.21 Zhejiang Harog

13.21.1 Zhejiang Harog Company Information

13.21.2 Zhejiang Harog Bipolar Plates Product Portfolios and Specifications

13.21.3 Zhejiang Harog Bipolar Plates Sales, Revenue, Price and Gross Margin (2020-2025)

13.21.4 Zhejiang Harog Main Business Overview

13.21.5 Zhejiang Harog Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

LIST OF TABLES

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

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

Table 3. Major Players of Graphite

Table 4. Major Players of Metal

Table 5. Major Players of Composite

Table 6. Global Bipolar Plates Sales byType (2020-2025) & (K Pcs)

Table 7. Global Bipolar Plates Sales Market Share byType (2020-2025)

Table 8. Global Bipolar Plates Revenue byType (2020-2025) & (\$ million)

Table 9. Global Bipolar Plates Revenue Market Share byType (2020-2025)

Table 10. Global Bipolar Plates Sale Price byType (2020-2025) & (US\$/Pcs)

Table 11. Global Bipolar Plates Sale by Application (2020-2025) & (K Pcs)

Table 12. Global Bipolar Plates Sale Market Share by Application (2020-2025)

Table 13. Global Bipolar Plates Revenue by Application (2020-2025) & (\$ million)

Table 14. Global Bipolar Plates Revenue Market Share by Application (2020-2025)

Table 15. Global Bipolar Plates Sale Price by Application (2020-2025) & (US\$/Pcs)

Table 16. Global Bipolar Plates Sales by Company (2020-2025) & (K Pcs)

Table 17. Global Bipolar Plates Sales Market Share by Company (2020-2025)

Table 18. Global Bipolar Plates Revenue by Company (2020-2025) & (\$ millions)

Table 19. Global Bipolar Plates Revenue Market Share by Company (2020-2025)

Table 20. Global Bipolar Plates Sale Price by Company (2020-2025) & (US\$/Pcs)

Table 21. Key Manufacturers Bipolar Plates Producing Area Distribution and Sales Area

Table 22. Players Bipolar Plates Products Offered

Table 23. Bipolar Plates Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

Table 24. New Products and Potential Entrants

Table 25. Market M&A Activity & Strategy

Table 26. Global Bipolar Plates Sales by Geographic Region (2020-2025) & (K Pcs)

Table 27. Global Bipolar Plates Sales Market Share Geographic Region (2020-2025)

Table 28. Global Bipolar Plates Revenue by Geographic Region (2020-2025) & (\$ millions)

Table 29. Global Bipolar Plates Revenue Market Share by Geographic Region (2020-2025)

Table 30. Global Bipolar Plates Sales by Country/Region (2020-2025) & (K Pcs)

Table 31. Global Bipolar Plates Sales Market Share by Country/Region (2020-2025)

Table 32. Global Bipolar Plates Revenue by Country/Region (2020-2025) & (\$ millions)

Table 33. Global Bipolar Plates Revenue Market Share by Country/Region (2020-2025)

Table 34. Americas Bipolar Plates Sales by Country (2020-2025) & (K Pcs)

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

Table 68. Middle East & Africa Bipolar Plates RevenueForecast by Country (2026-2031) & (\$ millions)

Table 69. Global Bipolar Plates SalesForecast byType (2026-2031) & (K Pcs)

Table 70. Global Bipolar Plates RevenueForecast byType (2026-2031) & (\$ millions)

Table 71. Global Bipolar Plates SalesForecast by Application (2026-2031) & (K Pcs)

Table 72. Global Bipolar Plates RevenueForecast by Application (2026-2031) & (\$ millions)

Table 73. Dana Basic Information, Bipolar Plates Manufacturing Base, Sales Area and Its Competitors

Table 74. Dana Bipolar Plates Product Portfolios and Specifications

Table 75. Dana Bipolar Plates Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2020-2025)

Table 76. Dana Main Business

Table 77. Dana Latest Developments

Table 78. Cell Impact Basic Information, Bipolar Plates Manufacturing Base, Sales Area and Its Competitors

Table 79. Cell Impact Bipolar Plates Product Portfolios and Specifications

Table 80. Cell Impact Bipolar Plates Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2020-2025)

Table 81. Cell Impact Main Business

Table 82. Cell Impact Latest Developments

Table 83. Schunk Group Basic Information, Bipolar Plates Manufacturing Base, Sales Area and Its Competitors

Table 84. Schunk Group Bipolar Plates Product Portfolios and Specifications

Table 85. Schunk Group Bipolar Plates Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2020-2025)

Table 86. Schunk Group Main Business

Table 87. Schunk Group Latest Developments

Table 88. Nisshinbo Basic Information, Bipolar Plates Manufacturing Base, Sales Area and Its Competitors

Table 89. Nisshinbo Bipolar Plates Product Portfolios and Specifications

Table 90. Nisshinbo Bipolar Plates Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2020-2025)

Table 91. Nisshinbo Main Business

Table 92. Nisshinbo Latest Developments

Table 93.FJ Composite Basic Information, Bipolar Plates Manufacturing Base, Sales Area and Its Competitors

Table 94.FJ Composite Bipolar Plates Product Portfolios and Specifications

Table 95.FJ Composite Bipolar Plates Sales (K Pcs), Revenue (\$ Million), Price

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

Table 96.FJ Composite Main Business

Table 97.FJ Composite Latest Developments

Table 98. Ballard Basic Information, Bipolar Plates Manufacturing Base, Sales Area and Its Competitors

Table 99. Ballard Bipolar Plates Product Portfolios and Specifications

Table 100. Ballard Bipolar Plates Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2020-2025)

Table 101. Ballard Main Business

Table 102. Ballard Latest Developments

Table 103. ElringKlinger Basic Information, Bipolar Plates Manufacturing Base, Sales Area and Its Competitors

Table 104. ElringKlinger Bipolar Plates Product Portfolios and Specifications

Table 105. ElringKlinger Bipolar Plates Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2020-2025)

Table 106. ElringKlinger Main Business

Table 107. ElringKlinger Latest Developments

Table 108. VinaTech (Ace Creation) Basic Information, Bipolar Plates Manufacturing Base, Sales Area and Its Competitors

Table 109. VinaTech (Ace Creation) Bipolar Plates Product Portfolios and Specifications

Table 110. VinaTech (Ace Creation) Bipolar Plates Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2020-2025)

Table 111. VinaTech (Ace Creation) Main Business

Table 112. VinaTech (Ace Creation) Latest Developments

Table 113. LEADTECH International Basic Information, Bipolar Plates Manufacturing Base, Sales Area and Its Competitors

Table 114. LEADTECH International Bipolar Plates Product Portfolios and Specifications

Table 115. LEADTECH International Bipolar Plates Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2020-2025)

Table 116. LEADTECH International Main Business

Table 117. LEADTECH International Latest Developments

Table 118. SGL Carbon Basic Information, Bipolar Plates Manufacturing Base, Sales Area and Its Competitors

Table 119. SGL Carbon Bipolar Plates Product Portfolios and Specifications

Table 120. SGL Carbon Bipolar Plates Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2020-2025)

Table 121. SGL Carbon Main Business

Table 122. SGL Carbon Latest Developments

Table 123. Shanghai Hongfeng Basic Information, Bipolar Plates Manufacturing Base, Sales Area and Its Competitors
Table 124. Shanghai Hongfeng Bipolar Plates Product Portfolios and Specifications
Table 125. Shanghai Hongfeng Bipolar Plates Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2020-2025)
Table 126. Shanghai Hongfeng Main Business
Table 127. Shanghai Hongfeng Latest Developments
Table 128. Dongguan Jiecheng Graphite Products Basic Information, Bipolar Plates Manufacturing Base, Sales Area and Its Competitors
Table 129. Dongguan Jiecheng Graphite Products Bipolar Plates Product Portfolios and Specifications
Table 130. Dongguan Jiecheng Graphite Products Bipolar Plates Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2020-2025)
Table 131. Dongguan Jiecheng Graphite Products Main Business
Table 132. Dongguan Jiecheng Graphite Products Latest Developments
Table 133. Shanghai Hongjun Basic Information, Bipolar Plates Manufacturing Base, Sales Area and Its Competitors
Table 134. Shanghai Hongjun Bipolar Plates Product Portfolios and Specifications
Table 135. Shanghai Hongjun Bipolar Plates Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2020-2025)
Table 136. Shanghai Hongjun Main Business
Table 137. Shanghai Hongjun Latest Developments
Table 138. Shanghai Shenli Basic Information, Bipolar Plates Manufacturing Base, Sales Area and Its Competitors
Table 139. Shanghai Shenli Bipolar Plates Product Portfolios and Specifications
Table 140. Shanghai Shenli Bipolar Plates Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2020-2025)
Table 141. Shanghai Shenli Main Business
Table 142. Shanghai Shenli Latest Developments
Table 143. Shenzhen Jiayu Basic Information, Bipolar Plates Manufacturing Base, Sales Area and Its Competitors
Table 144. Shenzhen Jiayu Bipolar Plates Product Portfolios and Specifications
Table 145. Shenzhen Jiayu Bipolar Plates Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2020-2025)
Table 146. Shenzhen Jiayu Main Business
Table 147. Shenzhen Jiayu Latest Developments
Table 148. Anhui Mingtian Basic Information, Bipolar Plates Manufacturing Base, Sales Area and Its Competitors
Table 149. Anhui Mingtian Bipolar Plates Product Portfolios and Specifications

Table 150. Anhui Mingtian Bipolar Plates Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2020-2025)

Table 151. Anhui Mingtian Main Business

Table 152. Anhui Mingtian Latest Developments

Table 153. Guangdong Nation-Synergy Basic Information, Bipolar Plates Manufacturing Base, Sales Area and Its Competitors

Table 154. Guangdong Nation-Synergy Bipolar Plates Product Portfolios and Specifications

Table 155. Guangdong Nation-Synergy Bipolar Plates Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2020-2025)

Table 156. Guangdong Nation-Synergy Main Business

Table 157. Guangdong Nation-Synergy Latest Developments

Table 158. Hunan Zenpon Basic Information, Bipolar Plates Manufacturing Base, Sales Area and Its Competitors

Table 159. Hunan Zenpon Bipolar Plates Product Portfolios and Specifications

Table 160. Hunan Zenpon Bipolar Plates Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2020-2025)

Table 161. Hunan Zenpon Main Business

Table 162. Hunan Zenpon Latest Developments

Table 163. Shanghai Yoogle Basic Information, Bipolar Plates Manufacturing Base, Sales Area and Its Competitors

Table 164. Shanghai Yoogle Bipolar Plates Product Portfolios and Specifications

Table 165. Shanghai Yoogle Bipolar Plates Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2020-2025)

Table 166. Shanghai Yoogle Main Business

Table 167. Shanghai Yoogle Latest Developments

Table 168. Shanghai Zhizhen Basic Information, Bipolar Plates Manufacturing Base, Sales Area and Its Competitors

Table 169. Shanghai Zhizhen Bipolar Plates Product Portfolios and Specifications

Table 170. Shanghai Zhizhen Bipolar Plates Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2020-2025)

Table 171. Shanghai Zhizhen Main Business

Table 172. Shanghai Zhizhen Latest Developments

Table 173. Zhejiang Harog Basic Information, Bipolar Plates Manufacturing Base, Sales Area and Its Competitors

Table 174. Zhejiang Harog Bipolar Plates Product Portfolios and Specifications

Table 175. Zhejiang Harog Bipolar Plates Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2020-2025)

Table 176. Zhejiang Harog Main Business

Table 177. Zhejiang Harog Latest Developments

LIST OFFIGURES

- Figure 1. Picture of Bipolar Plates
- Figure 2. Bipolar Plates Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Bipolar Plates Sales Growth Rate 2020-2031 (K Pcs)
- Figure 7. Global Bipolar Plates Revenue Growth Rate 2020-2031 (\$ millions)
- Figure 8. Bipolar Plates Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Figure 9. Bipolar Plates Sales Market Share by Country/Region (2024)
- Figure 10. Bipolar Plates Sales Market Share by Country/Region (2020, 2024 & 2031)
- Figure 11. Product Picture of Graphite
- Figure 12. Product Picture of Metal
- Figure 13. Product Picture of Composite
- Figure 14. Global Bipolar Plates Sales Market Share byType in 2025
- Figure 15. Global Bipolar Plates Revenue Market Share byType (2020-2025)
- Figure 16. Bipolar Plates Consumed in Proton Exchange MembraneFuel Cells (PEMFC)
- Figure 17. Global Bipolar Plates Market: Proton Exchange MembraneFuel Cells (PEMFC) (2020-2025) & (K Pcs)
- Figure 18. Bipolar Plates Consumed in Solid OxideFuel Cells (SOFC)
- Figure 19. Global Bipolar Plates Market: Solid OxideFuel Cells (SOFC) (2020-2025) & (K Pcs)
- Figure 20. Bipolar Plates Consumed in Molten CarbonateFuel Cells (MCFC)
- Figure 21. Global Bipolar Plates Market: Molten CarbonateFuel Cells (MCFC) (2020-2025) & (K Pcs)
- Figure 22. Bipolar Plates Consumed in Phosphoric AcidFuel Cells (PAFC)
- Figure 23. Global Bipolar Plates Market: Phosphoric AcidFuel Cells (PAFC) (2020-2025) & (K Pcs)
- Figure 24. Bipolar Plates Consumed in Others
- Figure 25. Global Bipolar Plates Market: Others (2020-2025) & (K Pcs)
- Figure 26. Global Bipolar Plates Sale Market Share by Application (2024)
- Figure 27. Global Bipolar Plates Revenue Market Share by Application in 2025
- Figure 28. Bipolar Plates Sales by Company in 2025 (K Pcs)

- Figure 29. Global Bipolar Plates Sales Market Share by Company in 2025
- Figure 30. Bipolar Plates Revenue by Company in 2025 (\$ millions)
- Figure 31. Global Bipolar Plates Revenue Market Share by Company in 2025
- Figure 32. Global Bipolar Plates Sales Market Share by Geographic Region (2020-2025)
- Figure 33. Global Bipolar Plates Revenue Market Share by Geographic Region in 2025
- Figure 34. Americas Bipolar Plates Sales 2020-2025 (K Pcs)
- Figure 35. Americas Bipolar Plates Revenue 2020-2025 (\$ millions)
- Figure 36. APAC Bipolar Plates Sales 2020-2025 (K Pcs)
- Figure 37. APAC Bipolar Plates Revenue 2020-2025 (\$ millions)
- Figure 38. Europe Bipolar Plates Sales 2020-2025 (K Pcs)
- Figure 39. Europe Bipolar Plates Revenue 2020-2025 (\$ millions)
- Figure 40. Middle East & Africa Bipolar Plates Sales 2020-2025 (K Pcs)
- Figure 41. Middle East & Africa Bipolar Plates Revenue 2020-2025 (\$ millions)
- Figure 42. Americas Bipolar Plates Sales Market Share by Country in 2025
- Figure 43. Americas Bipolar Plates Revenue Market Share by Country (2020-2025)
- Figure 44. Americas Bipolar Plates Sales Market Share byType (2020-2025)
- Figure 45. Americas Bipolar Plates Sales Market Share by Application (2020-2025)
- Figure 46. United States Bipolar Plates Revenue Growth 2020-2025 (\$ millions)
- Figure 47. Canada Bipolar Plates Revenue Growth 2020-2025 (\$ millions)
- Figure 48. Mexico Bipolar Plates Revenue Growth 2020-2025 (\$ millions)
- Figure 49. Brazil Bipolar Plates Revenue Growth 2020-2025 (\$ millions)
- Figure 50. APAC Bipolar Plates Sales Market Share by Region in 2025
- Figure 51. APAC Bipolar Plates Revenue Market Share by Region (2020-2025)
- Figure 52. APAC Bipolar Plates Sales Market Share byType (2020-2025)
- Figure 53. APAC Bipolar Plates Sales Market Share by Application (2020-2025)
- Figure 54. China Bipolar Plates Revenue Growth 2020-2025 (\$ millions)
- Figure 55. Japan Bipolar Plates Revenue Growth 2020-2025 (\$ millions)
- Figure 56. South Korea Bipolar Plates Revenue Growth 2020-2025 (\$ millions)
- Figure 57. Southeast Asia Bipolar Plates Revenue Growth 2020-2025 (\$ millions)
- Figure 58. India Bipolar Plates Revenue Growth 2020-2025 (\$ millions)
- Figure 59. Australia Bipolar Plates Revenue Growth 2020-2025 (\$ millions)
- Figure 60. ChinaTaiwan Bipolar Plates Revenue Growth 2020-2025 (\$ millions)
- Figure 61. Europe Bipolar Plates Sales Market Share by Country in 2025
- Figure 62. Europe Bipolar Plates Revenue Market Share by Country (2020-2025)
- Figure 63. Europe Bipolar Plates Sales Market Share byType (2020-2025)
- Figure 64. Europe Bipolar Plates Sales Market Share by Application (2020-2025)
- Figure 65. Germany Bipolar Plates Revenue Growth 2020-2025 (\$ millions)
- Figure 66. France Bipolar Plates Revenue Growth 2020-2025 (\$ millions)

Figure 67. UK Bipolar Plates Revenue Growth 2020-2025 (\$ millions)

Figure 68. Italy Bipolar Plates Revenue Growth 2020-2025 (\$ millions)

Figure 69. Russia Bipolar Plates Revenue Growth 2020-2025 (\$ millions)

Figure 70. Middle East & Africa Bipolar Plates Sales Market Share by Country
(2020-2025)

Figure 71. Middle East & Africa Bipolar Plates Sales Market Share byType (2020-2025)

Figure 72. Middle East & Africa Bipolar Plates Sales Market Share by Application
(2020-2025)

Figure 73. Egypt Bipolar Plates Revenue Growth 2020-2025 (\$ millions)

Figure 74. South Africa Bipolar Plates Revenue Growth 2020-2025 (\$ millions)

Figure 75. Israel Bipolar Plates Revenue Growth 2020-2025 (\$ millions)

Figure 76. Turkey Bipolar Plates Revenue Growth 2020-2025 (\$ millions)

Figure 77. GCC Countries Bipolar Plates Revenue Growth 2020-2025 (\$ millions)

Figure 78. Manufacturing Cost Structure Analysis of Bipolar Plates in 2025

Figure 79. Manufacturing Process Analysis of Bipolar Plates

Figure 80. Industry Chain Structure of Bipolar Plates

Figure 81. Channels of Distribution

Figure 82. Global Bipolar Plates Sales MarketForecast by Region (2026-2031)

Figure 83. Global Bipolar Plates Revenue Market ShareForecast by Region
(2026-2031)

Figure 84. Global Bipolar Plates Sales Market ShareForecast byType (2026-2031)

Figure 85. Global Bipolar Plates Revenue Market ShareForecast byType (2026-2031)

Figure 86. Global Bipolar Plates Sales Market ShareForecast by Application
(2026-2031)

Figure 87. Global Bipolar Plates Revenue Market ShareForecast by Application
(2026-2031)

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