

# Global High-Precision Lithium Battery Electrode Calendering Rolls Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G853F0FF832AEN.html>

Date: January 2026

Pages: 107

Price: US\$ 4,480.00 (Single User License)

ID: G853F0FF832AEN

## Abstracts

The global High-Precision Lithium Battery Electrode Calendering Rolls market size is expected to reach \$ 184 million by 2032, rising at a market growth of 5.2% CAGR during the forecast period (2026-2032).

High-Precision Lithium Battery Electrode Calendering Rolls are critical functional components used in the electrode calendering process of lithium batteries, where they compress positive and negative electrode sheets to achieve controlled thickness, uniform density, and stable surface quality. Their performance has a direct impact on cell consistency, energy density, safety, and manufacturing yield. These rolls are typically manufactured from high-alloy tool steel, high-chromium alloy steel, or powder metallurgy steel, and are produced through integral forging, precision heat treatment, ultra-precision grinding, and polishing to achieve micron-level roundness, cylindricity, concentricity, and extremely low surface roughness, while maintaining high hardness, wear resistance, fatigue strength, and long-term dimensional stability. Upstream inputs mainly include high-purity alloy steel billets, alloying elements such as nickel, chromium, and molybdenum, heat-treatment consumables, ultra-precision grinding materials, and high-accuracy inspection equipment. Downstream customers primarily consist of electrode calendering machine OEMs, as well as manufacturers of power batteries, energy storage batteries, and selected high-end consumer batteries. On an ex-works basis, global nameplate capacity of high-precision lithium battery electrode calendering rolls in 2025 is estimated at approximately 36,000 units, with actual sales of about 30,200 units, and an average ex-works price of around USD 4,200 per unit; depending on roll size, precision grade, service life requirements, customer qualification cycles, and remachining or refurbishment service models, industry gross margins typically range from 25% to 40%.

This report studies the global High-Precision Lithium Battery Electrode Calendering Rolls production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High-Precision Lithium Battery Electrode Calendering Rolls and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of High-Precision Lithium Battery Electrode Calendering Rolls that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global High-Precision Lithium Battery Electrode Calendering Rolls total production and demand, 2021-2032, (K Units)

Global High-Precision Lithium Battery Electrode Calendering Rolls total production value, 2021-2032, (USD Million)

Global High-Precision Lithium Battery Electrode Calendering Rolls production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global High-Precision Lithium Battery Electrode Calendering Rolls consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: High-Precision Lithium Battery Electrode Calendering Rolls domestic production, consumption, key domestic manufacturers and share

Global High-Precision Lithium Battery Electrode Calendering Rolls production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global High-Precision Lithium Battery Electrode Calendering Rolls production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global High-Precision Lithium Battery Electrode Calendering Rolls production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global High-Precision Lithium Battery Electrode Calendering Rolls market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Tokuden, ABBA Roller, INOMETA, Precision Roll Grinders, Matthews Technical Rollers, ANDRITZ, Baosteel Roll, Huaye Roll, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World High-Precision Lithium Battery Electrode Calendering Rolls market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global High-Precision Lithium Battery Electrode Calendering Rolls Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High-Precision Lithium Battery Electrode Calendering Rolls Market,  
Segmentation by Type:

Solid Roll

Hollow Roll

Composite Roll

Global High-Precision Lithium Battery Electrode Calendering Rolls Market,  
Segmentation by Precision Grade:

Standard Grade

High Precision Grade

Ultra-precision Grade

Global High-Precision Lithium Battery Electrode Calendering Rolls Market,  
Segmentation by Application:

Power Battery

Energy Storage Battery

Consumer Battery

Companies Profiled:

Tokuden

ABBA Roller

INOMETA

Precision Roll Grinders

Matthews Technical Rollers

ANDRITZ

Baosteel Roll

Huaye Roll

**Key Questions Answered:**

1. How big is the global High-Precision Lithium Battery Electrode Calendering Rolls market?
2. What is the demand of the global High-Precision Lithium Battery Electrode Calendering Rolls market?
3. What is the year over year growth of the global High-Precision Lithium Battery Electrode Calendering Rolls market?
4. What is the production and production value of the global High-Precision Lithium Battery Electrode Calendering Rolls market?
5. Who are the key producers in the global High-Precision Lithium Battery Electrode Calendering Rolls market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 High-Precision Lithium Battery Electrode Calendering Rolls Introduction
- 1.2 World High-Precision Lithium Battery Electrode Calendering Rolls Supply & Forecast
  - 1.2.1 World High-Precision Lithium Battery Electrode Calendering Rolls Production Value (2021 & 2025 & 2032)
  - 1.2.2 World High-Precision Lithium Battery Electrode Calendering Rolls Production (2021-2032)
  - 1.2.3 World High-Precision Lithium Battery Electrode Calendering Rolls Pricing Trends (2021-2032)
- 1.3 World High-Precision Lithium Battery Electrode Calendering Rolls Production by Region (Based on Production Site)
  - 1.3.1 World High-Precision Lithium Battery Electrode Calendering Rolls Production Value by Region (2021-2032)
  - 1.3.2 World High-Precision Lithium Battery Electrode Calendering Rolls Production by Region (2021-2032)
  - 1.3.3 World High-Precision Lithium Battery Electrode Calendering Rolls Average Price by Region (2021-2032)
  - 1.3.4 North America High-Precision Lithium Battery Electrode Calendering Rolls Production (2021-2032)
  - 1.3.5 Europe High-Precision Lithium Battery Electrode Calendering Rolls Production (2021-2032)
  - 1.3.6 China High-Precision Lithium Battery Electrode Calendering Rolls Production (2021-2032)
  - 1.3.7 Japan High-Precision Lithium Battery Electrode Calendering Rolls Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 High-Precision Lithium Battery Electrode Calendering Rolls Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 High-Precision Lithium Battery Electrode Calendering Rolls Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World High-Precision Lithium Battery Electrode Calendering Rolls Demand (2021-2032)
- 2.2 World High-Precision Lithium Battery Electrode Calendering Rolls Consumption by

## Region

2.2.1 World High-Precision Lithium Battery Electrode Calendering Rolls Consumption by Region (2021-2026)

2.2.2 World High-Precision Lithium Battery Electrode Calendering Rolls Consumption Forecast by Region (2027-2032)

2.3 United States High-Precision Lithium Battery Electrode Calendering Rolls Consumption (2021-2032)

2.4 China High-Precision Lithium Battery Electrode Calendering Rolls Consumption (2021-2032)

2.5 Europe High-Precision Lithium Battery Electrode Calendering Rolls Consumption (2021-2032)

2.6 Japan High-Precision Lithium Battery Electrode Calendering Rolls Consumption (2021-2032)

2.7 South Korea High-Precision Lithium Battery Electrode Calendering Rolls Consumption (2021-2032)

2.8 ASEAN High-Precision Lithium Battery Electrode Calendering Rolls Consumption (2021-2032)

2.9 India High-Precision Lithium Battery Electrode Calendering Rolls Consumption (2021-2032)

## **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

3.1 World High-Precision Lithium Battery Electrode Calendering Rolls Production Value by Manufacturer (2021-2026)

3.2 World High-Precision Lithium Battery Electrode Calendering Rolls Production by Manufacturer (2021-2026)

3.3 World High-Precision Lithium Battery Electrode Calendering Rolls Average Price by Manufacturer (2021-2026)

3.4 High-Precision Lithium Battery Electrode Calendering Rolls Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global High-Precision Lithium Battery Electrode Calendering Rolls Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for High-Precision Lithium Battery Electrode Calendering Rolls in 2025

3.5.3 Global Concentration Ratios (CR8) for High-Precision Lithium Battery Electrode Calendering Rolls in 2025

3.6 High-Precision Lithium Battery Electrode Calendering Rolls Market: Overall Company Footprint Analysis

3.6.1 High-Precision Lithium Battery Electrode Calendering Rolls Market: Region Footprint

3.6.2 High-Precision Lithium Battery Electrode Calendering Rolls Market: Company Product Type Footprint

3.6.3 High-Precision Lithium Battery Electrode Calendering Rolls Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

## **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

4.1 United States VS China: High-Precision Lithium Battery Electrode Calendering Rolls Production Value Comparison

4.1.1 United States VS China: High-Precision Lithium Battery Electrode Calendering Rolls Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: High-Precision Lithium Battery Electrode Calendering Rolls Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: High-Precision Lithium Battery Electrode Calendering Rolls Production Comparison

4.2.1 United States VS China: High-Precision Lithium Battery Electrode Calendering Rolls Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: High-Precision Lithium Battery Electrode Calendering Rolls Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: High-Precision Lithium Battery Electrode Calendering Rolls Consumption Comparison

4.3.1 United States VS China: High-Precision Lithium Battery Electrode Calendering Rolls Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: High-Precision Lithium Battery Electrode Calendering Rolls Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based High-Precision Lithium Battery Electrode Calendering Rolls Manufacturers and Market Share, 2021-2026

4.4.1 United States Based High-Precision Lithium Battery Electrode Calendering Rolls Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers High-Precision Lithium Battery Electrode Calendering Rolls Production Value (2021-2026)

4.4.3 United States Based Manufacturers High-Precision Lithium Battery Electrode Calendering Rolls Production (2021-2026)

4.5 China Based High-Precision Lithium Battery Electrode Calendering Rolls Manufacturers and Market Share

4.5.1 China Based High-Precision Lithium Battery Electrode Calendering Rolls Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers High-Precision Lithium Battery Electrode Calendering Rolls Production Value (2021-2026)

4.5.3 China Based Manufacturers High-Precision Lithium Battery Electrode Calendering Rolls Production (2021-2026)

4.6 Rest of World Based High-Precision Lithium Battery Electrode Calendering Rolls Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based High-Precision Lithium Battery Electrode Calendering Rolls Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers High-Precision Lithium Battery Electrode Calendering Rolls Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers High-Precision Lithium Battery Electrode Calendering Rolls Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World High-Precision Lithium Battery Electrode Calendering Rolls Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Solid Roll

5.2.2 Hollow Roll

5.2.3 Composite Roll

5.3 Market Segment by Type

5.3.1 World High-Precision Lithium Battery Electrode Calendering Rolls Production by Type (2021-2032)

5.3.2 World High-Precision Lithium Battery Electrode Calendering Rolls Production Value by Type (2021-2032)

5.3.3 World High-Precision Lithium Battery Electrode Calendering Rolls Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY PRECISION GRADE**

6.1 World High-Precision Lithium Battery Electrode Calendering Rolls Market Size Overview by Precision Grade: 2021 VS 2025 VS 2032

## 6.2 Segment Introduction by Precision Grade

6.2.1 Standard Grade

6.2.2 High Precision Grade

6.2.3 Ultra-precision Grade

## 6.3 Market Segment by Precision Grade

6.3.1 World High-Precision Lithium Battery Electrode Calendering Rolls Production by Precision Grade (2021-2032)

6.3.2 World High-Precision Lithium Battery Electrode Calendering Rolls Production Value by Precision Grade (2021-2032)

6.3.3 World High-Precision Lithium Battery Electrode Calendering Rolls Average Price by Precision Grade (2021-2032)

## 7 MARKET ANALYSIS BY APPLICATION

7.1 World High-Precision Lithium Battery Electrode Calendering Rolls Market Size Overview by Application: 2021 VS 2025 VS 2032

### 7.2 Segment Introduction by Application

7.2.1 Power Battery

7.2.2 Energy Storage Battery

7.2.3 Consumer Battery

### 7.3 Market Segment by Application

7.3.1 World High-Precision Lithium Battery Electrode Calendering Rolls Production by Application (2021-2032)

7.3.2 World High-Precision Lithium Battery Electrode Calendering Rolls Production Value by Application (2021-2032)

7.3.3 World High-Precision Lithium Battery Electrode Calendering Rolls Average Price by Application (2021-2032)

## 8 COMPANY PROFILES

### 8.1 Tokuden

8.1.1 Tokuden Details

8.1.2 Tokuden Major Business

8.1.3 Tokuden High-Precision Lithium Battery Electrode Calendering Rolls Product and Services

8.1.4 Tokuden High-Precision Lithium Battery Electrode Calendering Rolls Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.1.5 Tokuden Recent Developments/Updates

8.1.6 Tokuden Competitive Strengths & Weaknesses

## 8.2 ABBA Roller

### 8.2.1 ABBA Roller Details

### 8.2.2 ABBA Roller Major Business

### 8.2.3 ABBA Roller High-Precision Lithium Battery Electrode Calendering Rolls Product and Services

### 8.2.4 ABBA Roller High-Precision Lithium Battery Electrode Calendering Rolls Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 8.2.5 ABBA Roller Recent Developments/Updates

### 8.2.6 ABBA Roller Competitive Strengths & Weaknesses

## 8.3 INOMETA

### 8.3.1 INOMETA Details

### 8.3.2 INOMETA Major Business

### 8.3.3 INOMETA High-Precision Lithium Battery Electrode Calendering Rolls Product and Services

### 8.3.4 INOMETA High-Precision Lithium Battery Electrode Calendering Rolls Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 8.3.5 INOMETA Recent Developments/Updates

### 8.3.6 INOMETA Competitive Strengths & Weaknesses

## 8.4 Precision Roll Grinders

### 8.4.1 Precision Roll Grinders Details

### 8.4.2 Precision Roll Grinders Major Business

### 8.4.3 Precision Roll Grinders High-Precision Lithium Battery Electrode Calendering Rolls Product and Services

### 8.4.4 Precision Roll Grinders High-Precision Lithium Battery Electrode Calendering Rolls Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 8.4.5 Precision Roll Grinders Recent Developments/Updates

### 8.4.6 Precision Roll Grinders Competitive Strengths & Weaknesses

## 8.5 Matthews Technical Rollers

### 8.5.1 Matthews Technical Rollers Details

### 8.5.2 Matthews Technical Rollers Major Business

### 8.5.3 Matthews Technical Rollers High-Precision Lithium Battery Electrode Calendering Rolls Product and Services

### 8.5.4 Matthews Technical Rollers High-Precision Lithium Battery Electrode Calendering Rolls Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 8.5.5 Matthews Technical Rollers Recent Developments/Updates

### 8.5.6 Matthews Technical Rollers Competitive Strengths & Weaknesses

## 8.6 ANDRITZ

### 8.6.1 ANDRITZ Details

- 8.6.2 ANDRITZ Major Business
- 8.6.3 ANDRITZ High-Precision Lithium Battery Electrode Calendering Rolls Product and Services
- 8.6.4 ANDRITZ High-Precision Lithium Battery Electrode Calendering Rolls Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.6.5 ANDRITZ Recent Developments/Updates
- 8.6.6 ANDRITZ Competitive Strengths & Weaknesses
- 8.7 Baosteel Roll
  - 8.7.1 Baosteel Roll Details
  - 8.7.2 Baosteel Roll Major Business
  - 8.7.3 Baosteel Roll High-Precision Lithium Battery Electrode Calendering Rolls Product and Services
  - 8.7.4 Baosteel Roll High-Precision Lithium Battery Electrode Calendering Rolls Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.7.5 Baosteel Roll Recent Developments/Updates
  - 8.7.6 Baosteel Roll Competitive Strengths & Weaknesses
- 8.8 Huaye Roll
  - 8.8.1 Huaye Roll Details
  - 8.8.2 Huaye Roll Major Business
  - 8.8.3 Huaye Roll High-Precision Lithium Battery Electrode Calendering Rolls Product and Services
  - 8.8.4 Huaye Roll High-Precision Lithium Battery Electrode Calendering Rolls Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.8.5 Huaye Roll Recent Developments/Updates
  - 8.8.6 Huaye Roll Competitive Strengths & Weaknesses

## **9 INDUSTRY CHAIN ANALYSIS**

- 9.1 High-Precision Lithium Battery Electrode Calendering Rolls Industry Chain
- 9.2 High-Precision Lithium Battery Electrode Calendering Rolls Upstream Analysis
  - 9.2.1 High-Precision Lithium Battery Electrode Calendering Rolls Core Raw Materials
  - 9.2.2 Main Manufacturers of High-Precision Lithium Battery Electrode Calendering Rolls Core Raw Materials
- 9.3 Midstream Analysis
- 9.4 Downstream Analysis
- 9.5 High-Precision Lithium Battery Electrode Calendering Rolls Production Mode
- 9.6 High-Precision Lithium Battery Electrode Calendering Rolls Procurement Model
- 9.7 High-Precision Lithium Battery Electrode Calendering Rolls Industry Sales Model and Sales Channels

9.7.1 High-Precision Lithium Battery Electrode Calendering Rolls Sales Model

9.7.2 High-Precision Lithium Battery Electrode Calendering Rolls Typical Distributors

## **10 RESEARCH FINDINGS AND CONCLUSION**

## **11 APPENDIX**

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World High-Precision Lithium Battery Electrode Calendering Rolls Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World High-Precision Lithium Battery Electrode Calendering Rolls Production Value by Region (2021-2026) & (USD Million)

Table 3. World High-Precision Lithium Battery Electrode Calendering Rolls Production Value by Region (2027-2032) & (USD Million)

Table 4. World High-Precision Lithium Battery Electrode Calendering Rolls Production Value Market Share by Region (2021-2026)

Table 5. World High-Precision Lithium Battery Electrode Calendering Rolls Production Value Market Share by Region (2027-2032)

Table 6. World High-Precision Lithium Battery Electrode Calendering Rolls Production by Region (2021-2026) & (K Units)

Table 7. World High-Precision Lithium Battery Electrode Calendering Rolls Production by Region (2027-2032) & (K Units)

Table 8. World High-Precision Lithium Battery Electrode Calendering Rolls Production Market Share by Region (2021-2026)

Table 9. World High-Precision Lithium Battery Electrode Calendering Rolls Production Market Share by Region (2027-2032)

Table 10. World High-Precision Lithium Battery Electrode Calendering Rolls Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World High-Precision Lithium Battery Electrode Calendering Rolls Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. High-Precision Lithium Battery Electrode Calendering Rolls Major Market Trends

Table 13. World High-Precision Lithium Battery Electrode Calendering Rolls Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World High-Precision Lithium Battery Electrode Calendering Rolls Consumption by Region (2021-2026) & (K Units)

Table 15. World High-Precision Lithium Battery Electrode Calendering Rolls Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World High-Precision Lithium Battery Electrode Calendering Rolls Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key High-Precision Lithium Battery Electrode Calendering Rolls Producers in 2025

Table 18. World High-Precision Lithium Battery Electrode Calendering Rolls Production

by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key High-Precision Lithium Battery Electrode Calendering Rolls Producers in 2025

Table 20. World High-Precision Lithium Battery Electrode Calendering Rolls Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global High-Precision Lithium Battery Electrode Calendering Rolls Company Evaluation Quadrant

Table 22. World High-Precision Lithium Battery Electrode Calendering Rolls Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and High-Precision Lithium Battery Electrode Calendering Rolls Production Site of Key Manufacturer

Table 24. High-Precision Lithium Battery Electrode Calendering Rolls Market: Company Product Type Footprint

Table 25. High-Precision Lithium Battery Electrode Calendering Rolls Market: Company Product Application Footprint

Table 26. High-Precision Lithium Battery Electrode Calendering Rolls Competitive Factors

Table 27. High-Precision Lithium Battery Electrode Calendering Rolls New Entrant and Capacity Expansion Plans

Table 28. High-Precision Lithium Battery Electrode Calendering Rolls Mergers & Acquisitions Activity

Table 29. United States VS China High-Precision Lithium Battery Electrode Calendering Rolls Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China High-Precision Lithium Battery Electrode Calendering Rolls Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China High-Precision Lithium Battery Electrode Calendering Rolls Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based High-Precision Lithium Battery Electrode Calendering Rolls Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers High-Precision Lithium Battery Electrode Calendering Rolls Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers High-Precision Lithium Battery Electrode Calendering Rolls Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers High-Precision Lithium Battery Electrode Calendering Rolls Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers High-Precision Lithium Battery Electrode Calendering Rolls Production Market Share (2021-2026)

Table 37. China Based High-Precision Lithium Battery Electrode Calendering Rolls Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers High-Precision Lithium Battery Electrode Calendering Rolls Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers High-Precision Lithium Battery Electrode Calendering Rolls Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers High-Precision Lithium Battery Electrode Calendering Rolls Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers High-Precision Lithium Battery Electrode Calendering Rolls Production Market Share (2021-2026)

Table 42. Rest of World Based High-Precision Lithium Battery Electrode Calendering Rolls Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers High-Precision Lithium Battery Electrode Calendering Rolls Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers High-Precision Lithium Battery Electrode Calendering Rolls Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers High-Precision Lithium Battery Electrode Calendering Rolls Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers High-Precision Lithium Battery Electrode Calendering Rolls Production Market Share (2021-2026)

Table 47. World High-Precision Lithium Battery Electrode Calendering Rolls Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World High-Precision Lithium Battery Electrode Calendering Rolls Production by Type (2021-2026) & (K Units)

Table 49. World High-Precision Lithium Battery Electrode Calendering Rolls Production by Type (2027-2032) & (K Units)

Table 50. World High-Precision Lithium Battery Electrode Calendering Rolls Production Value by Type (2021-2026) & (USD Million)

Table 51. World High-Precision Lithium Battery Electrode Calendering Rolls Production Value by Type (2027-2032) & (USD Million)

Table 52. World High-Precision Lithium Battery Electrode Calendering Rolls Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World High-Precision Lithium Battery Electrode Calendering Rolls Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World High-Precision Lithium Battery Electrode Calendering Rolls Production Value by Precision Grade, (USD Million), 2021 & 2025 & 2032

Table 55. World High-Precision Lithium Battery Electrode Calendering Rolls Production by Precision Grade (2021-2026) & (K Units)

Table 56. World High-Precision Lithium Battery Electrode Calendering Rolls Production by Precision Grade (2027-2032) & (K Units)

Table 57. World High-Precision Lithium Battery Electrode Calendering Rolls Production

Value by Precision Grade (2021-2026) & (USD Million)

Table 58. World High-Precision Lithium Battery Electrode Calendering Rolls Production

Value by Precision Grade (2027-2032) & (USD Million)

Table 59. World High-Precision Lithium Battery Electrode Calendering Rolls Average

Price by Precision Grade (2021-2026) & (US\$/Unit)

Table 60. World High-Precision Lithium Battery Electrode Calendering Rolls Average

Price by Precision Grade (2027-2032) & (US\$/Unit)

Table 61. World High-Precision Lithium Battery Electrode Calendering Rolls Production

Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World High-Precision Lithium Battery Electrode Calendering Rolls Production

by Application (2021-2026) & (K Units)

Table 63. World High-Precision Lithium Battery Electrode Calendering Rolls Production

by Application (2027-2032) & (K Units)

Table 64. World High-Precision Lithium Battery Electrode Calendering Rolls Production

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

Table 65. World High-Precision Lithium Battery Electrode Calendering Rolls Production

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

Table 66. World High-Precision Lithium Battery Electrode Calendering Rolls Average

Price by Application (2021-2026) & (US\$/Unit)

Table 67. World High-Precision Lithium Battery Electrode Calendering Rolls Average

Price by Application (2027-2032) & (US\$/Unit)

Table 68. Tokuden Basic Information, Manufacturing Base and Competitors

Table 69. Tokuden Major Business

Table 70. Tokuden High-Precision Lithium Battery Electrode Calendering Rolls Product

and Services

Table 71. Tokuden High-Precision Lithium Battery Electrode Calendering Rolls

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

Table 72. Tokuden Recent Developments/Updates

Table 73. Tokuden Competitive Strengths & Weaknesses

Table 74. ABBA Roller Basic Information, Manufacturing Base and Competitors

Table 75. ABBA Roller Major Business

Table 76. ABBA Roller High-Precision Lithium Battery Electrode Calendering Rolls

Product and Services

Table 77. ABBA Roller High-Precision Lithium Battery Electrode Calendering Rolls

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

Table 78. ABBA Roller Recent Developments/Updates

Table 79. ABBA Roller Competitive Strengths & Weaknesses

- Table 80. INOMETA Basic Information, Manufacturing Base and Competitors
- Table 81. INOMETA Major Business
- Table 82. INOMETA High-Precision Lithium Battery Electrode Calendering Rolls Product and Services
- Table 83. INOMETA High-Precision Lithium Battery Electrode Calendering Rolls Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 84. INOMETA Recent Developments/Updates
- Table 85. INOMETA Competitive Strengths & Weaknesses
- Table 86. Precision Roll Grinders Basic Information, Manufacturing Base and Competitors
- Table 87. Precision Roll Grinders Major Business
- Table 88. Precision Roll Grinders High-Precision Lithium Battery Electrode Calendering Rolls Product and Services
- Table 89. Precision Roll Grinders High-Precision Lithium Battery Electrode Calendering Rolls Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 90. Precision Roll Grinders Recent Developments/Updates
- Table 91. Precision Roll Grinders Competitive Strengths & Weaknesses
- Table 92. Matthews Technical Rollers Basic Information, Manufacturing Base and Competitors
- Table 93. Matthews Technical Rollers Major Business
- Table 94. Matthews Technical Rollers High-Precision Lithium Battery Electrode Calendering Rolls Product and Services
- Table 95. Matthews Technical Rollers High-Precision Lithium Battery Electrode Calendering Rolls Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 96. Matthews Technical Rollers Recent Developments/Updates
- Table 97. Matthews Technical Rollers Competitive Strengths & Weaknesses
- Table 98. ANDRITZ Basic Information, Manufacturing Base and Competitors
- Table 99. ANDRITZ Major Business
- Table 100. ANDRITZ High-Precision Lithium Battery Electrode Calendering Rolls Product and Services
- Table 101. ANDRITZ High-Precision Lithium Battery Electrode Calendering Rolls Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 102. ANDRITZ Recent Developments/Updates
- Table 103. ANDRITZ Competitive Strengths & Weaknesses
- Table 104. Baosteel Roll Basic Information, Manufacturing Base and Competitors

Table 105. Baosteel Roll Major Business

Table 106. Baosteel Roll High-Precision Lithium Battery Electrode Calendering Rolls Product and Services

Table 107. Baosteel Roll High-Precision Lithium Battery Electrode Calendering Rolls Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 108. Baosteel Roll Recent Developments/Updates

Table 109. Baosteel Roll Competitive Strengths & Weaknesses

Table 110. Huaye Roll Basic Information, Manufacturing Base and Competitors

Table 111. Huaye Roll Major Business

Table 112. Huaye Roll High-Precision Lithium Battery Electrode Calendering Rolls Product and Services

Table 113. Huaye Roll High-Precision Lithium Battery Electrode Calendering Rolls Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 114. Huaye Roll Recent Developments/Updates

Table 115. Huaye Roll Competitive Strengths & Weaknesses

Table 116. Global Key Players of High-Precision Lithium Battery Electrode Calendering Rolls Upstream (Raw Materials)

Table 117. Global High-Precision Lithium Battery Electrode Calendering Rolls Typical Customers

Table 118. High-Precision Lithium Battery Electrode Calendering Rolls Typical Distributors

## List Of Figures

### LIST OF FIGURES

- Figure 1. High-Precision Lithium Battery Electrode Calendering Rolls Picture
- Figure 2. World High-Precision Lithium Battery Electrode Calendering Rolls Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World High-Precision Lithium Battery Electrode Calendering Rolls Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World High-Precision Lithium Battery Electrode Calendering Rolls Production (2021-2032) & (K Units)
- Figure 5. World High-Precision Lithium Battery Electrode Calendering Rolls Average Price (2021-2032) & (US\$/Unit)
- Figure 6. World High-Precision Lithium Battery Electrode Calendering Rolls Production Value Market Share by Region (2021-2032)
- Figure 7. World High-Precision Lithium Battery Electrode Calendering Rolls Production Market Share by Region (2021-2032)
- Figure 8. North America High-Precision Lithium Battery Electrode Calendering Rolls Production (2021-2032) & (K Units)
- Figure 9. Europe High-Precision Lithium Battery Electrode Calendering Rolls Production (2021-2032) & (K Units)
- Figure 10. China High-Precision Lithium Battery Electrode Calendering Rolls Production (2021-2032) & (K Units)
- Figure 11. Japan High-Precision Lithium Battery Electrode Calendering Rolls Production (2021-2032) & (K Units)
- Figure 12. High-Precision Lithium Battery Electrode Calendering Rolls Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World High-Precision Lithium Battery Electrode Calendering Rolls Consumption (2021-2032) & (K Units)
- Figure 15. World High-Precision Lithium Battery Electrode Calendering Rolls Consumption Market Share by Region (2021-2032)
- Figure 16. United States High-Precision Lithium Battery Electrode Calendering Rolls Consumption (2021-2032) & (K Units)
- Figure 17. China High-Precision Lithium Battery Electrode Calendering Rolls Consumption (2021-2032) & (K Units)
- Figure 18. Europe High-Precision Lithium Battery Electrode Calendering Rolls Consumption (2021-2032) & (K Units)
- Figure 19. Japan High-Precision Lithium Battery Electrode Calendering Rolls Consumption (2021-2032) & (K Units)

Figure 20. South Korea High-Precision Lithium Battery Electrode Calendering Rolls Consumption (2021-2032) & (K Units)

Figure 21. ASEAN High-Precision Lithium Battery Electrode Calendering Rolls Consumption (2021-2032) & (K Units)

Figure 22. India High-Precision Lithium Battery Electrode Calendering Rolls Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of High-Precision Lithium Battery Electrode Calendering Rolls by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for High-Precision Lithium Battery Electrode Calendering Rolls Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for High-Precision Lithium Battery Electrode Calendering Rolls Markets in 2025

Figure 26. United States VS China: High-Precision Lithium Battery Electrode Calendering Rolls Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: High-Precision Lithium Battery Electrode Calendering Rolls Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: High-Precision Lithium Battery Electrode Calendering Rolls Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers High-Precision Lithium Battery Electrode Calendering Rolls Production Market Share 2025

Figure 30. China Based Manufacturers High-Precision Lithium Battery Electrode Calendering Rolls Production Market Share 2025

Figure 31. Rest of World Based Manufacturers High-Precision Lithium Battery Electrode Calendering Rolls Production Market Share 2025

Figure 32. World High-Precision Lithium Battery Electrode Calendering Rolls Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World High-Precision Lithium Battery Electrode Calendering Rolls Production Value Market Share by Type in 2025

Figure 34. Solid Roll

Figure 35. Hollow Roll

Figure 36. Composite Roll

Figure 37. World High-Precision Lithium Battery Electrode Calendering Rolls Production Market Share by Type (2021-2032)

Figure 38. World High-Precision Lithium Battery Electrode Calendering Rolls Production Value Market Share by Type (2021-2032)

Figure 39. World High-Precision Lithium Battery Electrode Calendering Rolls Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. World High-Precision Lithium Battery Electrode Calendering Rolls Production Value by Precision Grade, (USD Million), 2021 & 2025 & 2032

Figure 41. World High-Precision Lithium Battery Electrode Calendering Rolls Production Value Market Share by Precision Grade in 2025

Figure 42. Standard Grade

Figure 43. High Precision Grade

Figure 44. Ultra-precision Grade

Figure 45. World High-Precision Lithium Battery Electrode Calendering Rolls Production Market Share by Precision Grade (2021-2032)

Figure 46. World High-Precision Lithium Battery Electrode Calendering Rolls Production Value Market Share by Precision Grade (2021-2032)

Figure 47. World High-Precision Lithium Battery Electrode Calendering Rolls Average Price by Precision Grade (2021-2032) & (US\$/Unit)

Figure 48. World High-Precision Lithium Battery Electrode Calendering Rolls Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 49. World High-Precision Lithium Battery Electrode Calendering Rolls Production Value Market Share by Application in 2025

Figure 50. Power Battery

Figure 51. Energy Storage Battery

Figure 52. Consumer Battery

Figure 53. World High-Precision Lithium Battery Electrode Calendering Rolls Production Market Share by Application (2021-2032)

Figure 54. World High-Precision Lithium Battery Electrode Calendering Rolls Production Value Market Share by Application (2021-2032)

Figure 55. World High-Precision Lithium Battery Electrode Calendering Rolls Average Price by Application (2021-2032) & (US\$/Unit)

Figure 56. High-Precision Lithium Battery Electrode Calendering Rolls Industry Chain

Figure 57. High-Precision Lithium Battery Electrode Calendering Rolls Procurement Model

Figure 58. High-Precision Lithium Battery Electrode Calendering Rolls Sales Model

Figure 59. High-Precision Lithium Battery Electrode Calendering Rolls Sales Channels, Direct Sales, and Distribution

Figure 60. Methodology

Figure 61. Research Process and Data Source

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