

Global Etch Process Market Size study & Forecast, by Type (Dry etching, Wet etching), by Application (Semiconductors, Power devices, Instrumentation, Automotive, Aerospace, Others), and Regional Analysis, 2023-2030

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Abstracts

Global Etch Process Market is valued at approximately USD XX billion in 2022 and is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2023-2030. The etch process is a critical step in the manufacturing of semiconductors and microchips. It involves selectively removing material from the surface of a silicon wafer or other substrate to create patterns or features that are used to build the complex circuits that make up electronic devices. The major driving factor for the Global Etch Process Market is increasing demand for electronic devices, rising investments in semiconductor manufacturing and growing demand for automotive electronics. Moreover, technological advancements in etch equipment and processes and increasing demand for advanced packaging technologies are creating lucrative growth opportunities for the market over the forecast period 2023-2030.

The growing demand for electronic devices such as smartphones, laptops, and tablets is driving the demand for semiconductors and microchips. This, in turn, is fueling the demand for the etch process, which is a crucial step in the semiconductor manufacturing process. The demand for smartphones has been increasing rapidly, with over 1.4 billion units sold worldwide in 2020, according to Statista. This trend is expected to continue in the coming years, with the global smartphone market projected to grow at a CAGR of 6.5% from 2021-2026. However, the high cost of Etch Process stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Etch Process Market study include Asia

Pacific, North America, Europe, Latin America, and Middle East & Africa. The market is expected to be driven by the Asia Pacific region, which is the largest producer and consumer of semiconductors globally and is home to several key players in the etch equipment and services market. China is expected to be the largest contributor to the growth of the etch process market in the Asia Pacific region, with a significant number of investments being made by the Chinese government and private companies in the semiconductor industry. Japan, South Korea, and Taiwan are other key countries in the region, which have a strong presence in the semiconductor industry and are investing heavily in the development of advanced etch technologies. North America is expected to be the fastest growing in the etch process market due to the increasing demand for advanced technologies in various industries, including automotive and healthcare. The United States is expected to be the largest contributor to the growth of the etch process market in North America.

Major market players included in this report are:

Applied Materials Inc.

KLA Corp.

LAM Research Corp.

Hitachi High-Technologies Corp.

Nissha Co. Ltd.

Cadence Inc.

Chemcut Corp.

Comsol Inc.

Conard Corp.

Etchform BV

Recent Developments in the Market:

In 2020, Intel announced its plans to invest USD 20 billion in two new chip manufacturing facilities in Arizona. The new facilities will use the company's 7-nanometer manufacturing process, which involves advanced etching techniques to create smaller and more efficient chips.

Lam Research is a leading supplier of etch equipment and services to the semiconductor industry. In 2021, the company announced its plans to invest USD 1.5 billion in research and development over the next five years to drive innovation in etch technology.

Global Etch Process Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Type, Application, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Type:

Dry etching

Wet etching

By Application:

Semiconductors

Power devices

Instrumentation

Automotive

Aerospace

Others

By Region:

North America

U.S.

Canada

Europe

UK
Germany
France
Spain
Italy
ROE

Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC

Latin America
Brazil
Mexico

Middle East & Africa
Saudi Arabia
South Africa
Rest of Middle East & Africa

Contents

CHAPTER 1. EXECUTIVE SUMMARY

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2020-2030 (USD Billion)
 - 1.2.1. Etch Process Market, by Region, 2020-2030 (USD Billion)
 - 1.2.2. Etch Process Market, by Type, 2020-2030 (USD Billion)
 - 1.2.3. Etch Process Market, by Application, 2020-2030 (USD Billion)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

CHAPTER 2. GLOBAL ETCH PROCESS MARKET DEFINITION AND SCOPE

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
 - 2.2.1. Industry Evolution
 - 2.2.2. Scope of the Study
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

CHAPTER 3. GLOBAL ETCH PROCESS MARKET DYNAMICS

- 3.1. Etch Process Market Impact Analysis (2020-2030)
 - 3.1.1. Market Drivers
 - 3.1.1.1. Increasing demand for electronic devices
 - 3.1.1.2. Rising investments in semiconductor manufacturing
 - 3.1.1.3. Growing demand for automotive electronics
 - 3.1.2. Market Challenges
 - 3.1.2.1. High Cost of Etch Process
 - 3.1.3. Market Opportunities
 - 3.1.3.1. Technological advancements in etch equipment and processes
 - 3.1.3.2. Increasing demand for advanced packaging technologies

CHAPTER 4. GLOBAL ETCH PROCESS MARKET INDUSTRY ANALYSIS

- 4.1. Porter's 5 Force Model
 - 4.1.1. Bargaining Power of Suppliers

- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.2. Porter's 5 Force Impact Analysis
- 4.3. PEST Analysis
 - 4.3.1. Political
 - 4.3.2. Economical
 - 4.3.3. Social
 - 4.3.4. Technological
 - 4.3.5. Environmental
 - 4.3.6. Legal
- 4.4. Top investment opportunity
- 4.5. Top winning strategies
- 4.6. COVID-19 Impact Analysis
- 4.7. Disruptive Trends
- 4.8. Industry Expert Perspective
- 4.9. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL ETCH PROCESS MARKET, BY TYPE

- 5.1. Market Snapshot
- 5.2. Global Etch Process Market by Type, Performance - Potential Analysis
- 5.3. Global Etch Process Market Estimates & Forecasts by Type 2020-2030 (USD Billion)
- 5.4. Etch Process Market, Sub Segment Analysis
 - 5.4.1. Dry etching
 - 5.4.2. Wet etching

CHAPTER 6. GLOBAL ETCH PROCESS MARKET, BY APPLICATION

- 6.1. Market Snapshot
- 6.2. Global Etch Process Market by Application, Performance - Potential Analysis
- 6.3. Global Etch Process Market Estimates & Forecasts by Application 2020-2030 (USD Billion)
- 6.4. Etch Process Market, Sub Segment Analysis
 - 6.4.1. Semiconductors
 - 6.4.2. Power devices
 - 6.4.3. Instrumentation

6.4.4. Automotive

6.4.5. Aerospace

6.4.6. Others

CHAPTER 7. GLOBAL ETCH PROCESS MARKET, REGIONAL ANALYSIS

7.1. Top Leading Countries

7.2. Top Emerging Countries

7.3. Etch Process Market, Regional Market Snapshot

7.4. North America Etch Process Market

7.4.1. U.S. Etch Process Market

7.4.1.1. Type breakdown estimates & forecasts, 2020-2030

7.4.1.2. Application breakdown estimates & forecasts, 2020-2030

7.4.2. Canada Etch Process Market

7.5. Europe Etch Process Market Snapshot

7.5.1. U.K. Etch Process Market

7.5.2. Germany Etch Process Market

7.5.3. France Etch Process Market

7.5.4. Spain Etch Process Market

7.5.5. Italy Etch Process Market

7.5.6. Rest of Europe Etch Process Market

7.6. Asia-Pacific Etch Process Market Snapshot

7.6.1. China Etch Process Market

7.6.2. India Etch Process Market

7.6.3. Japan Etch Process Market

7.6.4. Australia Etch Process Market

7.6.5. South Korea Etch Process Market

7.6.6. Rest of Asia Pacific Etch Process Market

7.7. Latin America Etch Process Market Snapshot

7.7.1. Brazil Etch Process Market

7.7.2. Mexico Etch Process Market

7.8. Middle East & Africa Etch Process Market

7.8.1. Saudi Arabia Etch Process Market

7.8.2. South Africa Etch Process Market

7.8.3. Rest of Middle East & Africa Etch Process Market

CHAPTER 8. COMPETITIVE INTELLIGENCE

8.1. Key Company SWOT Analysis

- 8.1.1. Company
- 8.1.2. Company
- 8.1.3. Company
- 8.2. Top Market Strategies
- 8.3. Company Profiles
 - 8.3.1. Applied Materials Inc.
 - 8.3.1.1. Key Information
 - 8.3.1.2. Overview
 - 8.3.1.3. Financial (Subject to Data Availability)
 - 8.3.1.4. Product Summary
 - 8.3.1.5. Recent Developments
 - 8.3.2. KLA Corp.
 - 8.3.3. LAM Research Corp.
 - 8.3.4. Hitachi High-Technologies Corp.
 - 8.3.5. Nissha Co. Ltd.
 - 8.3.6. Cadence Inc.
 - 8.3.7. Chemcut Corp.
 - 8.3.8. Comsol Inc.
 - 8.3.9. Conard Corp.
 - 8.3.10. Etchform BV

CHAPTER 9. RESEARCH PROCESS

- 9.1. Research Process
 - 9.1.1. Data Mining
 - 9.1.2. Analysis
 - 9.1.3. Market Estimation
 - 9.1.4. Validation
 - 9.1.5. Publishing
- 9.2. Research Attributes
- 9.3. Research Assumption

List Of Tables

LIST OF TABLES

TABLE 1. Global Etch Process Market, report scope

TABLE 2. Global Etch Process Market estimates & forecasts by Region 2020-2030 (USD Billion)

TABLE 3. Global Etch Process Market estimates & forecasts by Type 2020-2030 (USD Billion)

TABLE 4. Global Etch Process Market estimates & forecasts by Application 2020-2030 (USD Billion)

TABLE 5. Global Etch Process Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 6. Global Etch Process Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 7. Global Etch Process Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 8. Global Etch Process Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 9. Global Etch Process Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 10. Global Etch Process Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 11. Global Etch Process Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 12. Global Etch Process Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 13. Global Etch Process Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 14. Global Etch Process Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 15. U.S. Etch Process Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 16. U.S. Etch Process Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 17. U.S. Etch Process Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 18. Canada Etch Process Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 19. Canada Etch Process Market estimates & forecasts by segment 2020-2030

(USD Billion)

TABLE 20. Canada Etch Process Market estimates & forecasts by segment 2020-2030

(USD Billion)

TABLE 21. UK Etch Process Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 22. UK Etch Process Market estimates & forecasts by segment 2020-2030

(USD Billion)

TABLE 23. UK Etch Process Market estimates & forecasts by segment 2020-2030

(USD Billion)

TABLE 24. Germany Etch Process Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 25. Germany Etch Process Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 26. Germany Etch Process Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 27. France Etch Process Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 28. France Etch Process Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 29. France Etch Process Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 30. Italy Etch Process Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 31. Italy Etch Process Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 32. Italy Etch Process Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 33. Spain Etch Process Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 34. Spain Etch Process Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 35. Spain Etch Process Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 36. RoE Etch Process Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 37. RoE Etch Process Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 38. RoE Etch Process Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 39. China Etch Process Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 40. China Etch Process Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 41. China Etch Process Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 42. India Etch Process Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 43. India Etch Process Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 44. India Etch Process Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 45. Japan Etch Process Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 46. Japan Etch Process Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 47. Japan Etch Process Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 48. South Korea Etch Process Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 49. South Korea Etch Process Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 50. South Korea Etch Process Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 51. Australia Etch Process Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 52. Australia Etch Process Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 53. Australia Etch Process Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 54. RoAPAC Etch Process Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 55. RoAPAC Etch Process Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 56. RoAPAC Etch Process Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 57. Brazil Etch Process Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 58. Brazil Etch Process Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 59. Brazil Etch Process Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 60. Mexico Etch Process Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 61. Mexico Etch Process Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 62. Mexico Etch Process Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 63. RoLA Etch Process Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 64. RoLA Etch Process Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 65. RoLA Etch Process Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 66. Saudi Arabia Etch Process Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 67. South Africa Etch Process Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 68. RoMEA Etch Process Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 69. List of secondary sources, used in the study of global Etch Process Market

TABLE 70. List of primary sources, used in the study of global Etch Process Market

TABLE 71. Years considered for the study

TABLE 72. Exchange rates considered

List of tables and figures and dummy in nature, final lists may vary in the final deliverable

List Of Figures

LIST OF FIGURES

- FIG 1. Global Etch Process Market, research methodology
 - FIG 2. Global Etch Process Market, Market estimation techniques
 - FIG 3. Global Market size estimates & forecast methods
 - FIG 4. Global Etch Process Market, key trends 2022
 - FIG 5. Global Etch Process Market, growth prospects 2023-2030
 - FIG 6. Global Etch Process Market, porters 5 force model
 - FIG 7. Global Etch Process Market, pest analysis
 - FIG 8. Global Etch Process Market, value chain analysis
 - FIG 9. Global Etch Process Market by segment, 2020 & 2030 (USD Billion)
 - FIG 10. Global Etch Process Market by segment, 2020 & 2030 (USD Billion)
 - FIG 11. Global Etch Process Market by segment, 2020 & 2030 (USD Billion)
 - FIG 12. Global Etch Process Market by segment, 2020 & 2030 (USD Billion)
 - FIG 13. Global Etch Process Market by segment, 2020 & 2030 (USD Billion)
 - FIG 14. Global Etch Process Market, regional snapshot 2020 & 2030
 - FIG 15. North America Etch Process Market 2020 & 2030 (USD Billion)
 - FIG 16. Europe Etch Process Market 2020 & 2030 (USD Billion)
 - FIG 17. Asia Pacific Etch Process Market 2020 & 2030 (USD Billion)
 - FIG 18. Latin America Etch Process Market 2020 & 2030 (USD Billion)
 - FIG 19. Middle East & Africa Etch Process Market 2020 & 2030 (USD Billion)
- List of tables and figures and dummy in nature, final lists may vary in the final deliverable

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