

Global Titanium Nitride Hard Mask Etcher Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G3115112A3FBEN.html>

Date: April 2026

Pages: 105

Price: US\$ 3,480.00 (Single User License)

ID: G3115112A3FBEN

Abstracts

According to our (Global Info Research) latest study, the global Titanium Nitride Hard Mask Etcher market size was valued at US\$ 1852 million in 2025 and is forecast to a readjusted size of US\$ 3141 million by 2032 with a CAGR of 7.8% during review period.

In 2025, the global production capacity of titanium nitride (TiN) hard mask etchers is estimated at around 750 units, with actual output of approximately 600 units. The average market price is about US\$ 3.0 million per unit, and industry gross margins generally range between 38% and 48%. A Titanium Nitride (TiN) Hard Mask Etcher is a specialized semiconductor etching system designed for precise patterning and removal of TiN films used as metal hard masks in advanced semiconductor manufacturing. TiN hard masks are widely adopted in logic and memory processes due to their excellent etch resistance, thermal stability, and compatibility with high-aspect-ratio pattern transfer. The etcher typically employs plasma-based dry etching with carefully controlled gas chemistries to achieve high selectivity between TiN and underlying dielectric or semiconductor layers, while minimizing critical dimension loss and profile distortion. TiN hard mask etchers are critical tools in advanced logic nodes, DRAM, and 3D NAND fabrication, especially in multi-patterning and complex stack etching applications.

The upstream of the TiN hard mask etcher industry chain includes precision vacuum chambers, RF power supplies, plasma generation modules, high-purity process gases, gas delivery systems, endpoint detection sensors, and advanced process control software. The midstream focuses on equipment design and manufacturing, covering plasma source optimization, chamber material engineering, process integration, system assembly, and factory acceptance testing, which represent the main technical barriers and value creation areas. The downstream mainly consists of semiconductor foundries,

IDMs, and memory manufacturers engaged in advanced logic, DRAM, and 3D NAND production. It further extends to installation, process tuning, yield optimization services, spare parts supply, and long-term maintenance contracts, with service-related revenue steadily increasing.

The TiN hard mask etcher market is closely tied to the evolution of advanced semiconductor process integration. As device scaling continues and pattern density increases, metal hard mask technologies are increasingly favored over traditional photoresist-based approaches due to their superior etch durability and dimensional stability. This trend directly drives demand for dedicated TiN hard mask etching equipment with high selectivity, excellent profile control, and strong process repeatability.

Growth is particularly evident in advanced logic nodes and 3D NAND fabrication, where complex multilayer stacks and high-aspect-ratio features place stringent requirements on etching performance. In addition, the adoption of multi-patterning and self-aligned processes further elevates the importance of TiN hard mask etchers. High technical barriers, long qualification cycles, and deep process integration result in strong customer stickiness and relatively high gross margins. With ongoing global wafer fab expansion and continued investment in advanced nodes, the TiN hard mask etcher market is expected to maintain above-average growth over the medium to long term.

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

Key Features:

Global Titanium Nitride Hard Mask Etcher market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Titanium Nitride Hard Mask Etcher market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Titanium Nitride Hard Mask Etcher market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Titanium Nitride Hard Mask Etcher market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Titanium Nitride Hard Mask Etcher
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Titanium Nitride Hard Mask Etcher market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Lam Research, Applied Materials, Tokyo Electron, Hitachi High-Tech, KLA (etch-related platforms), SPTS Technologies, Oxford Instruments, AMEC, NAURA, etc.

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

Market Segmentation

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

Market segment by Type

ICP

CCP

Market segment by Process

TiN

HR

MOC

HK

Market segment by Application

Logic Devices

Memory Devices

Power Devices

Others

Major players covered

Lam Research

Applied Materials

Tokyo Electron

Hitachi High-Tech

KLA (etch-related platforms)

SPTS Technologies

Oxford Instruments

AMEC

NAURA

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

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

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

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

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

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

Chapter 1, to describe Titanium Nitride Hard Mask Etcher product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Titanium Nitride Hard Mask Etcher, with price, sales quantity, revenue, and global market share of Titanium Nitride Hard Mask Etcher from 2021 to 2026.

Chapter 3, the Titanium Nitride Hard Mask Etcher competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Titanium Nitride Hard Mask Etcher breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Titanium Nitride Hard Mask Etcher market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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

analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Titanium Nitride Hard Mask Etcher.

Chapter 14 and 15, to describe Titanium Nitride Hard Mask Etcher sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Titanium Nitride Hard Mask Etcher Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 ICP

1.3.3 CCP

1.4 Market Analysis by Process

1.4.1 Overview: Global Titanium Nitride Hard Mask Etcher Consumption Value by Process: 2021 Versus 2025 Versus 2032

1.4.2 TiN

1.4.3 HR

1.4.4 MOC

1.4.5 HK

1.5 Market Analysis by Application

1.5.1 Overview: Global Titanium Nitride Hard Mask Etcher Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.5.2 Logic Devices

1.5.3 Memory Devices

1.5.4 Power Devices

1.5.5 Others

1.6 Global Titanium Nitride Hard Mask Etcher Market Size & Forecast

1.6.1 Global Titanium Nitride Hard Mask Etcher Consumption Value (2021 & 2025 & 2032)

1.6.2 Global Titanium Nitride Hard Mask Etcher Sales Quantity (2021-2032)

1.6.3 Global Titanium Nitride Hard Mask Etcher Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Lam Research

2.1.1 Lam Research Details

2.1.2 Lam Research Major Business

2.1.3 Lam Research Titanium Nitride Hard Mask Etcher Product and Services

2.1.4 Lam Research Titanium Nitride Hard Mask Etcher Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

- 2.1.5 Lam Research Recent Developments/Updates
- 2.2 Applied Materials
 - 2.2.1 Applied Materials Details
 - 2.2.2 Applied Materials Major Business
 - 2.2.3 Applied Materials Titanium Nitride Hard Mask Etcher Product and Services
 - 2.2.4 Applied Materials Titanium Nitride Hard Mask Etcher Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.2.5 Applied Materials Recent Developments/Updates
- 2.3 Tokyo Electron
 - 2.3.1 Tokyo Electron Details
 - 2.3.2 Tokyo Electron Major Business
 - 2.3.3 Tokyo Electron Titanium Nitride Hard Mask Etcher Product and Services
 - 2.3.4 Tokyo Electron Titanium Nitride Hard Mask Etcher Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.3.5 Tokyo Electron Recent Developments/Updates
- 2.4 Hitachi High-Tech
 - 2.4.1 Hitachi High-Tech Details
 - 2.4.2 Hitachi High-Tech Major Business
 - 2.4.3 Hitachi High-Tech Titanium Nitride Hard Mask Etcher Product and Services
 - 2.4.4 Hitachi High-Tech Titanium Nitride Hard Mask Etcher Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.4.5 Hitachi High-Tech Recent Developments/Updates
- 2.5 KLA (etch-related platforms)
 - 2.5.1 KLA (etch-related platforms) Details
 - 2.5.2 KLA (etch-related platforms) Major Business
 - 2.5.3 KLA (etch-related platforms) Titanium Nitride Hard Mask Etcher Product and Services
 - 2.5.4 KLA (etch-related platforms) Titanium Nitride Hard Mask Etcher Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 KLA (etch-related platforms) Recent Developments/Updates
- 2.6 SPTS Technologies
 - 2.6.1 SPTS Technologies Details
 - 2.6.2 SPTS Technologies Major Business
 - 2.6.3 SPTS Technologies Titanium Nitride Hard Mask Etcher Product and Services
 - 2.6.4 SPTS Technologies Titanium Nitride Hard Mask Etcher Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.6.5 SPTS Technologies Recent Developments/Updates
- 2.7 Oxford Instruments
 - 2.7.1 Oxford Instruments Details

- 2.7.2 Oxford Instruments Major Business
- 2.7.3 Oxford Instruments Titanium Nitride Hard Mask Etcher Product and Services
- 2.7.4 Oxford Instruments Titanium Nitride Hard Mask Etcher Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.7.5 Oxford Instruments Recent Developments/Updates
- 2.8 AMEC
 - 2.8.1 AMEC Details
 - 2.8.2 AMEC Major Business
 - 2.8.3 AMEC Titanium Nitride Hard Mask Etcher Product and Services
 - 2.8.4 AMEC Titanium Nitride Hard Mask Etcher Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 AMEC Recent Developments/Updates
- 2.9 NAURA
 - 2.9.1 NAURA Details
 - 2.9.2 NAURA Major Business
 - 2.9.3 NAURA Titanium Nitride Hard Mask Etcher Product and Services
 - 2.9.4 NAURA Titanium Nitride Hard Mask Etcher Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 NAURA Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: TITANIUM NITRIDE HARD MASK ETCHER BY MANUFACTURER

- 3.1 Global Titanium Nitride Hard Mask Etcher Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Titanium Nitride Hard Mask Etcher Revenue by Manufacturer (2021-2026)
- 3.3 Global Titanium Nitride Hard Mask Etcher Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Titanium Nitride Hard Mask Etcher by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 Titanium Nitride Hard Mask Etcher Manufacturer Market Share in 2025
 - 3.4.3 Top 6 Titanium Nitride Hard Mask Etcher Manufacturer Market Share in 2025
- 3.5 Titanium Nitride Hard Mask Etcher Market: Overall Company Footprint Analysis
 - 3.5.1 Titanium Nitride Hard Mask Etcher Market: Region Footprint
 - 3.5.2 Titanium Nitride Hard Mask Etcher Market: Company Product Type Footprint
 - 3.5.3 Titanium Nitride Hard Mask Etcher Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Titanium Nitride Hard Mask Etcher Market Size by Region

4.1.1 Global Titanium Nitride Hard Mask Etcher Sales Quantity by Region (2021-2032)

4.1.2 Global Titanium Nitride Hard Mask Etcher Consumption Value by Region (2021-2032)

4.1.3 Global Titanium Nitride Hard Mask Etcher Average Price by Region (2021-2032)

4.2 North America Titanium Nitride Hard Mask Etcher Consumption Value (2021-2032)

4.3 Europe Titanium Nitride Hard Mask Etcher Consumption Value (2021-2032)

4.4 Asia-Pacific Titanium Nitride Hard Mask Etcher Consumption Value (2021-2032)

4.5 South America Titanium Nitride Hard Mask Etcher Consumption Value (2021-2032)

4.6 Middle East & Africa Titanium Nitride Hard Mask Etcher Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Titanium Nitride Hard Mask Etcher Sales Quantity by Type (2021-2032)

5.2 Global Titanium Nitride Hard Mask Etcher Consumption Value by Type (2021-2032)

5.3 Global Titanium Nitride Hard Mask Etcher Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Titanium Nitride Hard Mask Etcher Sales Quantity by Application (2021-2032)

6.2 Global Titanium Nitride Hard Mask Etcher Consumption Value by Application (2021-2032)

6.3 Global Titanium Nitride Hard Mask Etcher Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Titanium Nitride Hard Mask Etcher Sales Quantity by Type (2021-2032)

7.2 North America Titanium Nitride Hard Mask Etcher Sales Quantity by Application (2021-2032)

7.3 North America Titanium Nitride Hard Mask Etcher Market Size by Country

7.3.1 North America Titanium Nitride Hard Mask Etcher Sales Quantity by Country (2021-2032)

7.3.2 North America Titanium Nitride Hard Mask Etcher Consumption Value by Country (2021-2032)

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

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Titanium Nitride Hard Mask Etcher Sales Quantity by Type (2021-2032)

8.2 Europe Titanium Nitride Hard Mask Etcher Sales Quantity by Application (2021-2032)

8.3 Europe Titanium Nitride Hard Mask Etcher Market Size by Country

8.3.1 Europe Titanium Nitride Hard Mask Etcher Sales Quantity by Country (2021-2032)

8.3.2 Europe Titanium Nitride Hard Mask Etcher Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

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

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Titanium Nitride Hard Mask Etcher Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Titanium Nitride Hard Mask Etcher Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Titanium Nitride Hard Mask Etcher Market Size by Region

9.3.1 Asia-Pacific Titanium Nitride Hard Mask Etcher Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Titanium Nitride Hard Mask Etcher Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

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

9.3.6 India Market Size and Forecast (2021-2032)

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

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Titanium Nitride Hard Mask Etcher Sales Quantity by Type (2021-2032)

10.2 South America Titanium Nitride Hard Mask Etcher Sales Quantity by Application (2021-2032)

10.3 South America Titanium Nitride Hard Mask Etcher Market Size by Country

10.3.1 South America Titanium Nitride Hard Mask Etcher Sales Quantity by Country (2021-2032)

10.3.2 South America Titanium Nitride Hard Mask Etcher Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Titanium Nitride Hard Mask Etcher Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Titanium Nitride Hard Mask Etcher Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Titanium Nitride Hard Mask Etcher Market Size by Country

11.3.1 Middle East & Africa Titanium Nitride Hard Mask Etcher Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Titanium Nitride Hard Mask Etcher Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

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

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

12 MARKET DYNAMICS

12.1 Titanium Nitride Hard Mask Etcher Market Drivers

12.2 Titanium Nitride Hard Mask Etcher Market Restraints

12.3 Titanium Nitride Hard Mask Etcher Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Titanium Nitride Hard Mask Etcher and Key Manufacturers

13.2 Manufacturing Costs Percentage of Titanium Nitride Hard Mask Etcher

13.3 Titanium Nitride Hard Mask Etcher Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Titanium Nitride Hard Mask Etcher Typical Distributors

14.3 Titanium Nitride Hard Mask Etcher Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Titanium Nitride Hard Mask Etcher Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Titanium Nitride Hard Mask Etcher Consumption Value by Process, (USD Million), 2021 & 2025 & 2032

Table 3. Global Titanium Nitride Hard Mask Etcher Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 4. Lam Research Basic Information, Manufacturing Base and Competitors

Table 5. Lam Research Major Business

Table 6. Lam Research Titanium Nitride Hard Mask Etcher Product and Services

Table 7. Lam Research Titanium Nitride Hard Mask Etcher Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 8. Lam Research Recent Developments/Updates

Table 9. Applied Materials Basic Information, Manufacturing Base and Competitors

Table 10. Applied Materials Major Business

Table 11. Applied Materials Titanium Nitride Hard Mask Etcher Product and Services

Table 12. Applied Materials Titanium Nitride Hard Mask Etcher Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 13. Applied Materials Recent Developments/Updates

Table 14. Tokyo Electron Basic Information, Manufacturing Base and Competitors

Table 15. Tokyo Electron Major Business

Table 16. Tokyo Electron Titanium Nitride Hard Mask Etcher Product and Services

Table 17. Tokyo Electron Titanium Nitride Hard Mask Etcher Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 18. Tokyo Electron Recent Developments/Updates

Table 19. Hitachi High-Tech Basic Information, Manufacturing Base and Competitors

Table 20. Hitachi High-Tech Major Business

Table 21. Hitachi High-Tech Titanium Nitride Hard Mask Etcher Product and Services

Table 22. Hitachi High-Tech Titanium Nitride Hard Mask Etcher Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 23. Hitachi High-Tech Recent Developments/Updates

Table 24. KLA (etch-related platforms) Basic Information, Manufacturing Base and

Competitors

Table 25. KLA (etch-related platforms) Major Business

Table 26. KLA (etch-related platforms) Titanium Nitride Hard Mask Etcher Product and Services

Table 27. KLA (etch-related platforms) Titanium Nitride Hard Mask Etcher Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 28. KLA (etch-related platforms) Recent Developments/Updates

Table 29. SPTS Technologies Basic Information, Manufacturing Base and Competitors

Table 30. SPTS Technologies Major Business

Table 31. SPTS Technologies Titanium Nitride Hard Mask Etcher Product and Services

Table 32. SPTS Technologies Titanium Nitride Hard Mask Etcher Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 33. SPTS Technologies Recent Developments/Updates

Table 34. Oxford Instruments Basic Information, Manufacturing Base and Competitors

Table 35. Oxford Instruments Major Business

Table 36. Oxford Instruments Titanium Nitride Hard Mask Etcher Product and Services

Table 37. Oxford Instruments Titanium Nitride Hard Mask Etcher Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 38. Oxford Instruments Recent Developments/Updates

Table 39. AMEC Basic Information, Manufacturing Base and Competitors

Table 40. AMEC Major Business

Table 41. AMEC Titanium Nitride Hard Mask Etcher Product and Services

Table 42. AMEC Titanium Nitride Hard Mask Etcher Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 43. AMEC Recent Developments/Updates

Table 44. NAURA Basic Information, Manufacturing Base and Competitors

Table 45. NAURA Major Business

Table 46. NAURA Titanium Nitride Hard Mask Etcher Product and Services

Table 47. NAURA Titanium Nitride Hard Mask Etcher Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 48. NAURA Recent Developments/Updates

Table 49. Global Titanium Nitride Hard Mask Etcher Sales Quantity by Manufacturer (2021-2026) & (Units)

Table 50. Global Titanium Nitride Hard Mask Etcher Revenue by Manufacturer

(2021-2026) & (USD Million)

Table 51. Global Titanium Nitride Hard Mask Etcher Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 52. Market Position of Manufacturers in Titanium Nitride Hard Mask Etcher, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 53. Head Office and Titanium Nitride Hard Mask Etcher Production Site of Key Manufacturer

Table 54. Titanium Nitride Hard Mask Etcher Market: Company Product Type Footprint

Table 55. Titanium Nitride Hard Mask Etcher Market: Company Product Application Footprint

Table 56. Titanium Nitride Hard Mask Etcher New Market Entrants and Barriers to Market Entry

Table 57. Titanium Nitride Hard Mask Etcher Mergers, Acquisition, Agreements, and Collaborations

Table 58. Global Titanium Nitride Hard Mask Etcher Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 59. Global Titanium Nitride Hard Mask Etcher Sales Quantity by Region (2021-2026) & (Units)

Table 60. Global Titanium Nitride Hard Mask Etcher Sales Quantity by Region (2027-2032) & (Units)

Table 61. Global Titanium Nitride Hard Mask Etcher Consumption Value by Region (2021-2026) & (USD Million)

Table 62. Global Titanium Nitride Hard Mask Etcher Consumption Value by Region (2027-2032) & (USD Million)

Table 63. Global Titanium Nitride Hard Mask Etcher Average Price by Region (2021-2026) & (K US\$/Unit)

Table 64. Global Titanium Nitride Hard Mask Etcher Average Price by Region (2027-2032) & (K US\$/Unit)

Table 65. Global Titanium Nitride Hard Mask Etcher Sales Quantity by Type (2021-2026) & (Units)

Table 66. Global Titanium Nitride Hard Mask Etcher Sales Quantity by Type (2027-2032) & (Units)

Table 67. Global Titanium Nitride Hard Mask Etcher Consumption Value by Type (2021-2026) & (USD Million)

Table 68. Global Titanium Nitride Hard Mask Etcher Consumption Value by Type (2027-2032) & (USD Million)

Table 69. Global Titanium Nitride Hard Mask Etcher Average Price by Type (2021-2026) & (K US\$/Unit)

Table 70. Global Titanium Nitride Hard Mask Etcher Average Price by Type

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

Table 71. Global Titanium Nitride Hard Mask Etcher Sales Quantity by Application (2021-2026) & (Units)

Table 72. Global Titanium Nitride Hard Mask Etcher Sales Quantity by Application (2027-2032) & (Units)

Table 73. Global Titanium Nitride Hard Mask Etcher Consumption Value by Application (2021-2026) & (USD Million)

Table 74. Global Titanium Nitride Hard Mask Etcher Consumption Value by Application (2027-2032) & (USD Million)

Table 75. Global Titanium Nitride Hard Mask Etcher Average Price by Application (2021-2026) & (K US\$/Unit)

Table 76. Global Titanium Nitride Hard Mask Etcher Average Price by Application (2027-2032) & (K US\$/Unit)

Table 77. North America Titanium Nitride Hard Mask Etcher Sales Quantity by Type (2021-2026) & (Units)

Table 78. North America Titanium Nitride Hard Mask Etcher Sales Quantity by Type (2027-2032) & (Units)

Table 79. North America Titanium Nitride Hard Mask Etcher Sales Quantity by Application (2021-2026) & (Units)

Table 80. North America Titanium Nitride Hard Mask Etcher Sales Quantity by Application (2027-2032) & (Units)

Table 81. North America Titanium Nitride Hard Mask Etcher Sales Quantity by Country (2021-2026) & (Units)

Table 82. North America Titanium Nitride Hard Mask Etcher Sales Quantity by Country (2027-2032) & (Units)

Table 83. North America Titanium Nitride Hard Mask Etcher Consumption Value by Country (2021-2026) & (USD Million)

Table 84. North America Titanium Nitride Hard Mask Etcher Consumption Value by Country (2027-2032) & (USD Million)

Table 85. Europe Titanium Nitride Hard Mask Etcher Sales Quantity by Type (2021-2026) & (Units)

Table 86. Europe Titanium Nitride Hard Mask Etcher Sales Quantity by Type (2027-2032) & (Units)

Table 87. Europe Titanium Nitride Hard Mask Etcher Sales Quantity by Application (2021-2026) & (Units)

Table 88. Europe Titanium Nitride Hard Mask Etcher Sales Quantity by Application (2027-2032) & (Units)

Table 89. Europe Titanium Nitride Hard Mask Etcher Sales Quantity by Country (2021-2026) & (Units)

Table 90. Europe Titanium Nitride Hard Mask Etcher Sales Quantity by Country (2027-2032) & (Units)

Table 91. Europe Titanium Nitride Hard Mask Etcher Consumption Value by Country (2021-2026) & (USD Million)

Table 92. Europe Titanium Nitride Hard Mask Etcher Consumption Value by Country (2027-2032) & (USD Million)

Table 93. Asia-Pacific Titanium Nitride Hard Mask Etcher Sales Quantity by Type (2021-2026) & (Units)

Table 94. Asia-Pacific Titanium Nitride Hard Mask Etcher Sales Quantity by Type (2027-2032) & (Units)

Table 95. Asia-Pacific Titanium Nitride Hard Mask Etcher Sales Quantity by Application (2021-2026) & (Units)

Table 96. Asia-Pacific Titanium Nitride Hard Mask Etcher Sales Quantity by Application (2027-2032) & (Units)

Table 97. Asia-Pacific Titanium Nitride Hard Mask Etcher Sales Quantity by Region (2021-2026) & (Units)

Table 98. Asia-Pacific Titanium Nitride Hard Mask Etcher Sales Quantity by Region (2027-2032) & (Units)

Table 99. Asia-Pacific Titanium Nitride Hard Mask Etcher Consumption Value by Region (2021-2026) & (USD Million)

Table 100. Asia-Pacific Titanium Nitride Hard Mask Etcher Consumption Value by Region (2027-2032) & (USD Million)

Table 101. South America Titanium Nitride Hard Mask Etcher Sales Quantity by Type (2021-2026) & (Units)

Table 102. South America Titanium Nitride Hard Mask Etcher Sales Quantity by Type (2027-2032) & (Units)

Table 103. South America Titanium Nitride Hard Mask Etcher Sales Quantity by Application (2021-2026) & (Units)

Table 104. South America Titanium Nitride Hard Mask Etcher Sales Quantity by Application (2027-2032) & (Units)

Table 105. South America Titanium Nitride Hard Mask Etcher Sales Quantity by Country (2021-2026) & (Units)

Table 106. South America Titanium Nitride Hard Mask Etcher Sales Quantity by Country (2027-2032) & (Units)

Table 107. South America Titanium Nitride Hard Mask Etcher Consumption Value by Country (2021-2026) & (USD Million)

Table 108. South America Titanium Nitride Hard Mask Etcher Consumption Value by Country (2027-2032) & (USD Million)

Table 109. Middle East & Africa Titanium Nitride Hard Mask Etcher Sales Quantity by

Type (2021-2026) & (Units)

Table 110. Middle East & Africa Titanium Nitride Hard Mask Etcher Sales Quantity by Type (2027-2032) & (Units)

Table 111. Middle East & Africa Titanium Nitride Hard Mask Etcher Sales Quantity by Application (2021-2026) & (Units)

Table 112. Middle East & Africa Titanium Nitride Hard Mask Etcher Sales Quantity by Application (2027-2032) & (Units)

Table 113. Middle East & Africa Titanium Nitride Hard Mask Etcher Sales Quantity by Country (2021-2026) & (Units)

Table 114. Middle East & Africa Titanium Nitride Hard Mask Etcher Sales Quantity by Country (2027-2032) & (Units)

Table 115. Middle East & Africa Titanium Nitride Hard Mask Etcher Consumption Value by Country (2021-2026) & (USD Million)

Table 116. Middle East & Africa Titanium Nitride Hard Mask Etcher Consumption Value by Country (2027-2032) & (USD Million)

Table 117. Titanium Nitride Hard Mask Etcher Raw Material

Table 118. Key Manufacturers of Titanium Nitride Hard Mask Etcher Raw Materials

Table 119. Titanium Nitride Hard Mask Etcher Typical Distributors

Table 120. Titanium Nitride Hard Mask Etcher Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Titanium Nitride Hard Mask Etcher Picture

Figure 2. Global Titanium Nitride Hard Mask Etcher Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Titanium Nitride Hard Mask Etcher Revenue Market Share by Type in 2025

Figure 4. ICP Examples

Figure 5. CCP Examples

Figure 6. Global Titanium Nitride Hard Mask Etcher Revenue by Process, (USD Million), 2021 & 2025 & 2032

Figure 7. Global Titanium Nitride Hard Mask Etcher Revenue Market Share by Process in 2025

Figure 8. TiN Examples

Figure 9. HR Examples

Figure 10. MOC Examples

Figure 11. HK Examples

Figure 12. Global Titanium Nitride Hard Mask Etcher Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 13. Global Titanium Nitride Hard Mask Etcher Revenue Market Share by Application in 2025

Figure 14. Logic Devices Examples

Figure 15. Memory Devices Examples

Figure 16. Power Devices Examples

Figure 17. Others Examples

Figure 18. Global Titanium Nitride Hard Mask Etcher Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 19. Global Titanium Nitride Hard Mask Etcher Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 20. Global Titanium Nitride Hard Mask Etcher Sales Quantity (2021-2032) & (Units)

Figure 21. Global Titanium Nitride Hard Mask Etcher Price (2021-2032) & (K US\$/Unit)

Figure 22. Global Titanium Nitride Hard Mask Etcher Sales Quantity Market Share by Manufacturer in 2025

Figure 23. Global Titanium Nitride Hard Mask Etcher Revenue Market Share by Manufacturer in 2025

Figure 24. Producer Shipments of Titanium Nitride Hard Mask Etcher by Manufacturer

Sales (\$MM) and Market Share (%): 2025

Figure 25. Top 3 Titanium Nitride Hard Mask Etcher Manufacturer (Revenue) Market Share in 2025

Figure 26. Top 6 Titanium Nitride Hard Mask Etcher Manufacturer (Revenue) Market Share in 2025

Figure 27. Global Titanium Nitride Hard Mask Etcher Sales Quantity Market Share by Region (2021-2032)

Figure 28. Global Titanium Nitride Hard Mask Etcher Consumption Value Market Share by Region (2021-2032)

Figure 29. North America Titanium Nitride Hard Mask Etcher Consumption Value (2021-2032) & (USD Million)

Figure 30. Europe Titanium Nitride Hard Mask Etcher Consumption Value (2021-2032) & (USD Million)

Figure 31. Asia-Pacific Titanium Nitride Hard Mask Etcher Consumption Value (2021-2032) & (USD Million)

Figure 32. South America Titanium Nitride Hard Mask Etcher Consumption Value (2021-2032) & (USD Million)

Figure 33. Middle East & Africa Titanium Nitride Hard Mask Etcher Consumption Value (2021-2032) & (USD Million)

Figure 34. Global Titanium Nitride Hard Mask Etcher Sales Quantity Market Share by Type (2021-2032)

Figure 35. Global Titanium Nitride Hard Mask Etcher Consumption Value Market Share by Type (2021-2032)

Figure 36. Global Titanium Nitride Hard Mask Etcher Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 37. Global Titanium Nitride Hard Mask Etcher Sales Quantity Market Share by Application (2021-2032)

Figure 38. Global Titanium Nitride Hard Mask Etcher Revenue Market Share by Application (2021-2032)

Figure 39. Global Titanium Nitride Hard Mask Etcher Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 40. North America Titanium Nitride Hard Mask Etcher Sales Quantity Market Share by Type (2021-2032)

Figure 41. North America Titanium Nitride Hard Mask Etcher Sales Quantity Market Share by Application (2021-2032)

Figure 42. North America Titanium Nitride Hard Mask Etcher Sales Quantity Market Share by Country (2021-2032)

Figure 43. North America Titanium Nitride Hard Mask Etcher Consumption Value Market Share by Country (2021-2032)

Figure 44. United States Titanium Nitride Hard Mask Etcher Consumption Value (2021-2032) & (USD Million)

Figure 45. Canada Titanium Nitride Hard Mask Etcher Consumption Value (2021-2032) & (USD Million)

Figure 46. Mexico Titanium Nitride Hard Mask Etcher Consumption Value (2021-2032) & (USD Million)

Figure 47. Europe Titanium Nitride Hard Mask Etcher Sales Quantity Market Share by Type (2021-2032)

Figure 48. Europe Titanium Nitride Hard Mask Etcher Sales Quantity Market Share by Application (2021-2032)

Figure 49. Europe Titanium Nitride Hard Mask Etcher Sales Quantity Market Share by Country (2021-2032)

Figure 50. Europe Titanium Nitride Hard Mask Etcher Consumption Value Market Share by Country (2021-2032)

Figure 51. Germany Titanium Nitride Hard Mask Etcher Consumption Value (2021-2032) & (USD Million)

Figure 52. France Titanium Nitride Hard Mask Etcher Consumption Value (2021-2032) & (USD Million)

Figure 53. United Kingdom Titanium Nitride Hard Mask Etcher Consumption Value (2021-2032) & (USD Million)

Figure 54. Russia Titanium Nitride Hard Mask Etcher Consumption Value (2021-2032) & (USD Million)

Figure 55. Italy Titanium Nitride Hard Mask Etcher Consumption Value (2021-2032) & (USD Million)

Figure 56. Asia-Pacific Titanium Nitride Hard Mask Etcher Sales Quantity Market Share by Type (2021-2032)

Figure 57. Asia-Pacific Titanium Nitride Hard Mask Etcher Sales Quantity Market Share by Application (2021-2032)

Figure 58. Asia-Pacific Titanium Nitride Hard Mask Etcher Sales Quantity Market Share by Region (2021-2032)

Figure 59. Asia-Pacific Titanium Nitride Hard Mask Etcher Consumption Value Market Share by Region (2021-2032)

Figure 60. China Titanium Nitride Hard Mask Etcher Consumption Value (2021-2032) & (USD Million)

Figure 61. Japan Titanium Nitride Hard Mask Etcher Consumption Value (2021-2032) & (USD Million)

Figure 62. South Korea Titanium Nitride Hard Mask Etcher Consumption Value (2021-2032) & (USD Million)

Figure 63. India Titanium Nitride Hard Mask Etcher Consumption Value (2021-2032) &

(USD Million)

Figure 64. Southeast Asia Titanium Nitride Hard Mask Etcher Consumption Value (2021-2032) & (USD Million)

Figure 65. Australia Titanium Nitride Hard Mask Etcher Consumption Value (2021-2032) & (USD Million)

Figure 66. South America Titanium Nitride Hard Mask Etcher Sales Quantity Market Share by Type (2021-2032)

Figure 67. South America Titanium Nitride Hard Mask Etcher Sales Quantity Market Share by Application (2021-2032)

Figure 68. South America Titanium Nitride Hard Mask Etcher Sales Quantity Market Share by Country (2021-2032)

Figure 69. South America Titanium Nitride Hard Mask Etcher Consumption Value Market Share by Country (2021-2032)

Figure 70. Brazil Titanium Nitride Hard Mask Etcher Consumption Value (2021-2032) & (USD Million)

Figure 71. Argentina Titanium Nitride Hard Mask Etcher Consumption Value (2021-2032) & (USD Million)

Figure 72. Middle East & Africa Titanium Nitride Hard Mask Etcher Sales Quantity Market Share by Type (2021-2032)

Figure 73. Middle East & Africa Titanium Nitride Hard Mask Etcher Sales Quantity Market Share by Application (2021-2032)

Figure 74. Middle East & Africa Titanium Nitride Hard Mask Etcher Sales Quantity Market Share by Country (2021-2032)

Figure 75. Middle East & Africa Titanium Nitride Hard Mask Etcher Consumption Value Market Share by Country (2021-2032)

Figure 76. Turkey Titanium Nitride Hard Mask Etcher Consumption Value (2021-2032) & (USD Million)

Figure 77. Egypt Titanium Nitride Hard Mask Etcher Consumption Value (2021-2032) & (USD Million)

Figure 78. Saudi Arabia Titanium Nitride Hard Mask Etcher Consumption Value (2021-2032) & (USD Million)

Figure 79. South Africa Titanium Nitride Hard Mask Etcher Consumption Value (2021-2032) & (USD Million)

Figure 80. Titanium Nitride Hard Mask Etcher Market Drivers

Figure 81. Titanium Nitride Hard Mask Etcher Market Restraints

Figure 82. Titanium Nitride Hard Mask Etcher Market Trends

Figure 83. Porters Five Forces Analysis

Figure 84. Manufacturing Cost Structure Analysis of Titanium Nitride Hard Mask Etcher in 2025

Figure 85. Manufacturing Process Analysis of Titanium Nitride Hard Mask Etcher

Figure 86. Titanium Nitride Hard Mask Etcher Industrial Chain

Figure 87. Sales Channel: Direct to End-User vs Distributors

Figure 88. Direct Channel Pros & Cons

Figure 89. Indirect Channel Pros & Cons

Figure 90. Methodology

Figure 91. Research Process and Data Source

I would like to order

Product name: Global Titanium Nitride Hard Mask Etcher Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

Product link: <https://marketpublishers.com/r/G3115112A3FBEN.html>

Price: US\$ 3,480.00 (Single User License / Electronic Delivery)

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

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G3115112A3FBEN.html>