

Dry Strip System Global Market Insights 2025, Analysis and Forecast to 2030, by Manufacturers, Regions, Technology, Application

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Abstracts

Dry Strip System Market Overview

The Dry Strip System market is poised for significant growth from 2025 to 2030, driven by advancements in semiconductor manufacturing and increasing demand for advanced memory and interconnect technologies. Dry strip systems are critical in the semiconductor fabrication process, used for removing photoresist and other residues without damaging the underlying layers. The market is expected to grow at a compound annual growth rate (CAGR) of 5.8% during the forecast period, reaching a market size of approximately \$1.2 billion by 2030.

Market Size and Share Analysis

In 2025, the global Dry Strip System market is projected to be valued at \$850 million, with a steady increase to \$1.2 billion by 2030. The market is dominated by key players such as Lam Research, Hitachi High-Tech, PSK Inc, TES, Alfa Laval, Beijing E-Town, NAURA Technology Group, and Kokusai Electric. These companies collectively hold a market share of approximately 65%-70%.

By Product Type

The market is segmented by product type, with plasma-based dry strip systems leading the market with a share of 45%-50%. These systems are preferred for their efficiency in removing photoresist and other residues in advanced semiconductor manufacturing processes.

By Process

In terms of process, the market is divided into etching, ashing, and cleaning. The ashing process holds the largest market share at 40%-45%, driven by its widespread use in

advanced memory and interconnect applications.

By Application

The application segment includes Advanced Memory, Interconnect, Patterning, and Transistor. The Advanced Memory segment is expected to grow at the highest CAGR of 6.5%, driven by the increasing demand for high-performance memory solutions in data centers and consumer electronics.

By End-Use

The end-use segment is categorized into semiconductor manufacturers, foundries, and IDMs (Integrated Device Manufacturers). Semiconductor manufacturers account for the largest share at 50%-55%, owing to the high volume of semiconductor production globally.

By Region

Geographically, the market is segmented into North America, Europe, Asia-Pacific, and Rest of the World. The Asia-Pacific region dominates the market with a share of 60%-65%, driven by the presence of major semiconductor manufacturers in countries like China, South Korea, and Taiwan.

Market Trends

The Dry Strip System market is witnessing several key trends:

Increasing adoption of 3D NAND and DRAM technologies: The demand for advanced memory solutions is driving the adoption of dry strip systems in 3D NAND and DRAM manufacturing processes.

Rising demand for miniaturization: The trend towards smaller and more efficient semiconductor devices is increasing the need for precise and efficient dry strip systems.

Growing focus on sustainability: Manufacturers are increasingly focusing on developing environmentally friendly dry strip systems that reduce chemical usage and waste.

Market News on Policy and Companies

Recent developments in the Dry Strip System market include:

Lam Research announced a new line of dry strip systems designed for advanced memory applications, expected to increase their market share by 5%-7% by 2026.

Hitachi High-Tech has partnered with several semiconductor manufacturers to develop next-generation dry strip systems with improved efficiency and reduced environmental

impact.

Government policies in the Asia-Pacific region are encouraging the growth of the semiconductor industry, with subsidies and tax incentives for manufacturers investing in advanced technologies.

Segment Forecasts (2025 - 2030)

The Dry Strip System market is expected to see significant growth across all segments:

By Product Type: Plasma-based dry strip systems are expected to grow at a CAGR of 6.2%, reaching a market size of \$550 million by 2030.

By Process: The ashing process segment is projected to grow at a CAGR of 6.0%, driven by its widespread use in advanced memory and interconnect applications.

By Application: The Advanced Memory segment is expected to grow at the highest CAGR of 6.5%, reaching a market size of \$400 million by 2030.

By End-Use: Semiconductor manufacturers are expected to maintain their dominant position, with a projected market size of \$650 million by 2030.

By Region: The Asia-Pacific region is expected to continue its dominance, with a projected market size of \$750 million by 2030.

Conclusion

The Dry Strip System market is set for robust growth from 2025 to 2030, driven by advancements in semiconductor manufacturing and increasing demand for advanced memory and interconnect technologies. Key players like Lam Research, Hitachi High-Tech, and PSK Inc are expected to lead the market, with significant contributions from the Asia-Pacific region. The market is also witnessing several key trends, including the adoption of 3D NAND and DRAM technologies, the demand for miniaturization, and a growing focus on sustainability. With favorable government policies and continuous innovation, the Dry Strip System market is poised for a bright future.

Contents

CHAPTER 1 EXECUTIVE SUMMARY

CHAPTER 2 ABBREVIATION AND ACRONYMS

CHAPTER 3 PREFACE

- 3.1 Research Scope
- 3.2 Research Sources
 - 3.2.1 Data Sources
 - 3.2.2 Assumptions
- 3.3 Research Method

CHAPTER 4 MARKET LANDSCAPE

- 4.1 Market Overview
- 4.2 Classification/Types
- 4.3 Application/End Users

CHAPTER 5 MARKET TREND ANALYSIS

- 5.1 Introduction
- 5.2 Drivers
- 5.3 Restraints
- 5.4 Opportunities
- 5.5 Threats

CHAPTER 6 INDUSTRY CHAIN ANALYSIS

- 6.1 Upstream/Suppliers Analysis
- 6.2 Dry Strip System Analysis
 - 6.2.1 Technology Analysis
 - 6.2.2 Cost Analysis
 - 6.2.3 Market Channel Analysis
- 6.3 Downstream Buyers/End Users

CHAPTER 7 LATEST MARKET DYNAMICS

- 7.1 Latest News
- 7.2 Merger and Acquisition
- 7.3 Planned/Future Project
- 7.4 Policy Dynamics

CHAPTER 8 TRADING ANALYSIS

- 8.1 Export of Dry Strip System by Region
- 8.2 Import of Dry Strip System by Region
- 8.3 Balance of Trade

CHAPTER 9 HISTORICAL AND FORECAST DRY STRIP SYSTEM MARKET IN NORTH AMERICA (2020-2030)

- 9.1 Dry Strip System Market Size
- 9.2 Dry Strip System Demand by End Use
- 9.3 Competition by Players/Suppliers
- 9.4 Type Segmentation and Price
- 9.5 Key Countries Analysis
 - 9.5.1 United States
 - 9.5.2 Canada
 - 9.5.3 Mexico

CHAPTER 10 HISTORICAL AND FORECAST DRY STRIP SYSTEM MARKET IN SOUTH AMERICA (2020-2030)

- 10.1 Dry Strip System Market Size
- 10.2 Dry Strip System Demand by End Use
- 10.3 Competition by Players/Suppliers
- 10.4 Type Segmentation and Price
- 10.5 Key Countries Analysis
 - 10.5.1 Brazil
 - 10.5.2 Argentina
 - 10.5.3 Chile
 - 10.5.4 Peru

CHAPTER 11 HISTORICAL AND FORECAST DRY STRIP SYSTEM MARKET IN ASIA & PACIFIC (2020-2030)

- 11.1 Dry Strip System Market Size
- 11.2 Dry Strip System Demand by End Use
- 11.3 Competition by Players/Suppliers
- 11.4 Type Segmentation and Price
- 11.5 Key Countries Analysis
 - 11.5.1 China
 - 11.5.2 India
 - 11.5.3 Japan
 - 11.5.4 South Korea
 - 11.5.5 Southeast Asia
 - 11.5.6 Australia

CHAPTER 12 HISTORICAL AND FORECAST DRY STRIP SYSTEM MARKET IN EUROPE (2020-2030)

- 12.1 Dry Strip System Market Size
- 12.2 Dry Strip System Demand by End Use
- 12.3 Competition by Players/Suppliers
- 12.4 Type Segmentation and Price
- 12.5 Key Countries Analysis
 - 12.5.1 Germany
 - 12.5.2 France
 - 12.5.3 United Kingdom
 - 12.5.4 Italy
 - 12.5.5 Spain
 - 12.5.6 Belgium
 - 12.5.7 Netherlands
 - 12.5.8 Austria
 - 12.5.9 Poland
 - 12.5.10 Russia

CHAPTER 13 HISTORICAL AND FORECAST DRY STRIP SYSTEM MARKET IN MEA (2020-2030)

- 13.1 Dry Strip System Market Size
- 13.2 Dry Strip System Demand by End Use
- 13.3 Competition by Players/Suppliers
- 13.4 Type Segmentation and Price
- 13.5 Key Countries Analysis

- 13.5.1 Egypt
- 13.5.2 Israel
- 13.5.3 South Africa
- 13.5.4 Gulf Cooperation Council Countries
- 13.5.5 Turkey

CHAPTER 14 SUMMARY FOR GLOBAL DRY STRIP SYSTEM MARKET (2020-2025)

- 14.1 Dry Strip System Market Size
- 14.2 Dry Strip System Demand by End Use
- 14.3 Competition by Players/Suppliers
- 14.4 Type Segmentation and Price

CHAPTER 15 GLOBAL DRY STRIP SYSTEM MARKET FORECAST (2025-2030)

- 15.1 Dry Strip System Market Size Forecast
- 15.2 Dry Strip System Demand Forecast
- 15.3 Competition by Players/Suppliers
- 15.4 Type Segmentation and Price Forecast

CHAPTER 16 ANALYSIS OF GLOBAL KEY VENDORS

- 16.1 Lam Research
 - 16.1.1 Company Profile
 - 16.1.2 Main Business and Dry Strip System Information
 - 16.1.3 SWOT Analysis of Lam Research
 - 16.1.4 Lam Research Dry Strip System Sales, Revenue, Price and Gross Margin (2020-2025)
- 16.2 Hitachi High-Tech
 - 16.2.1 Company Profile
 - 16.2.2 Main Business and Dry Strip System Information
 - 16.2.3 SWOT Analysis of Hitachi High-Tech
 - 16.2.4 Hitachi High-Tech Dry Strip System Sales, Revenue, Price and Gross Margin (2020-2025)
- 16.3 PSK Inc
 - 16.3.1 Company Profile
 - 16.3.2 Main Business and Dry Strip System Information
 - 16.3.3 SWOT Analysis of PSK Inc
 - 16.3.4 PSK Inc Dry Strip System Sales, Revenue, Price and Gross Margin

(2020-2025)

16.4 TES

16.4.1 Company Profile

16.4.2 Main Business and Dry Strip System Information

16.4.3 SWOT Analysis of TES

16.4.4 TES Dry Strip System Sales, Revenue, Price and Gross Margin (2020-2025)

16.5 Alfa Laval

16.5.1 Company Profile

16.5.2 Main Business and Dry Strip System Information

16.5.3 SWOT Analysis of Alfa Laval

16.5.4 Alfa Laval Dry Strip System Sales, Revenue, Price and Gross Margin

(2020-2025)

16.6 Beijing E-Town

16.6.1 Company Profile

16.6.2 Main Business and Dry Strip System Information

16.6.3 SWOT Analysis of Beijing E-Town

16.6.4 Beijing E-Town Dry Strip System Sales, Revenue, Price and Gross Margin

(2020-2025)

Please ask for sample pages for full companies list

Tables and Figures

Table Abbreviation and Acronyms List

Table Research Scope of Dry Strip System Report

Table Data Sources of Dry Strip System Report

Table Major Assumptions of Dry Strip System Report

Figure Market Size Estimated Method

Figure Major Forecasting Factors

Figure Dry Strip System Picture

Table Dry Strip System Classification

Table Dry Strip System Applications List

Table Drivers of Dry Strip System Market

Table Restraints of Dry Strip System Market

Table Opportunities of Dry Strip System Market

Table Threats of Dry Strip System Market

Table Covid-19 Impact For Dry Strip System Market

Table Raw Materials Suppliers List

Table Different Production Methods of Dry Strip System

Table Cost Structure Analysis of Dry Strip System

Table Key End Users List

Table Latest News of Dry Strip System Market

Table Merger and Acquisition List

Table Planned/Future Project of Dry Strip System Market

Table Policy of Dry Strip System Market

Table 2020-2030 Regional Export of Dry Strip System

Table 2020-2030 Regional Import of Dry Strip System

Table 2020-2030 Regional Trade Balance

Figure 2020-2030 Regional Trade Balance

Table 2020-2030 North America Dry Strip System Market Size and Market Volume List

Figure 2020-2030 North America Dry Strip System Market Size and CAGR

Figure 2020-2030 North America Dry Strip System Market Volume and CAGR

Table 2020-2030 North America Dry Strip System Demand List by Application

Table 2020-2025 North America Dry Strip System Key Players Sales List

Table 2020-2025 North America Dry Strip System Key Players Market Share List

Table 2020-2030 North America Dry Strip System Demand List by Type

Table 2020-2025 North America Dry Strip System Price List by Type

Table 2020-2030 United States Dry Strip System Market Size and Market Volume List

Table 2020-2030 United States Dry Strip System Import & Export List

Table 2020-2030 Canada Dry Strip System Market Size and Market Volume List

Table 2020-2030 Canada Dry Strip System Import & Export List

Table 2020-2030 Mexico Dry Strip System Market Size and Market Volume List

Table 2020-2030 Mexico Dry Strip System Import & Export List

Table 2020-2030 South America Dry Strip System Market Size and Market Volume List

Figure 2020-2030 South America Dry Strip System Market Size and CAGR

Figure 2020-2030 South America Dry Strip System Market Volume and CAGR

Table 2020-2030 South America Dry Strip System Demand List by Application

Table 2020-2025 South America Dry Strip System Key Players Sales List

Table 2020-2025 South America Dry Strip System Key Players Market Share List

Table 2020-2030 South America Dry Strip System Demand List by Type

Table 2020-2025 South America Dry Strip System Price List by Type

Table 2020-2030 Brazil Dry Strip System Market Size and Market Volume List

Table 2020-2030 Brazil Dry Strip System Import & Export List

Table 2020-2030 Argentina Dry Strip System Market Size and Market Volume List

Table 2020-2030 Argentina Dry Strip System Import & Export List

Table 2020-2030 Chile Dry Strip System Market Size and Market Volume List

Table 2020-2030 Chile Dry Strip System Import & Export List

Table 2020-2030 Peru Dry Strip System Market Size and Market Volume List

Table 2020-2030 Peru Dry Strip System Import & Export List

Table 2020-2030 Asia & Pacific Dry Strip System Market Size and Market Volume List

Figure 2020-2030 Asia & Pacific Dry Strip System Market Size and CAGR

Figure 2020-2030 Asia & Pacific Dry Strip System Market Volume and CAGR
Table 2020-2030 Asia & Pacific Dry Strip System Demand List by Application
Table 2020-2025 Asia & Pacific Dry Strip System Key Players Sales List
Table 2020-2025 Asia & Pacific Dry Strip System Key Players Market Share List
Table 2020-2030 Asia & Pacific Dry Strip System Demand List by Type
Table 2020-2025 Asia & Pacific Dry Strip System Price List by Type
Table 2020-2030 China Dry Strip System Market Size and Market Volume List
Table 2020-2030 China Dry Strip System Import & Export List
Table 2020-2030 India Dry Strip System Market Size and Market Volume List
Table 2020-2030 India Dry Strip System Import & Export List
Table 2020-2030 Japan Dry Strip System Market Size and Market Volume List
Table 2020-2030 Japan Dry Strip System Import & Export List
Table 2020-2030 South Korea Dry Strip System Market Size and Market Volume List
Table 2020-2030 South Korea Dry Strip System Import & Export List
Table 2020-2030 Southeast Asia Dry Strip System Market Size List
Table 2020-2030 Southeast Asia Dry Strip System Market Volume List
Table 2020-2030 Southeast Asia Dry Strip System Import List
Table 2020-2030 Southeast Asia Dry Strip System Export List
Table 2020-2030 Australia Dry Strip System Market Size and Market Volume List
Table 2020-2030 Australia Dry Strip System Import & Export List
Table 2020-2030 Europe Dry Strip System Market Size and Market Volume List
Figure 2020-2030 Europe Dry Strip System Market Size and CAGR
Figure 2020-2030 Europe Dry Strip System Market Volume and CAGR
Table 2020-2030 Europe Dry Strip System Demand List by Application
Table 2020-2025 Europe Dry Strip System Key Players Sales List
Table 2020-2025 Europe Dry Strip System Key Players Market Share List
Table 2020-2030 Europe Dry Strip System Demand List by Type
Table 2020-2025 Europe Dry Strip System Price List by Type
Table 2020-2030 Germany Dry Strip System Market Size and Market Volume List
Table 2020-2030 Germany Dry Strip System Import & Export List
Table 2020-2030 France Dry Strip System Market Size and Market Volume List
Table 2020-2030 France Dry Strip System Import & Export List
Table 2020-2030 United Kingdom Dry Strip System Market Size and Market Volume List
Table 2020-2030 United Kingdom Dry Strip System Import & Export List
Table 2020-2030 Italy Dry Strip System Market Size and Market Volume List
Table 2020-2030 Italy Dry Strip System Import & Export List
Table 2020-2030 Spain Dry Strip System Market Size and Market Volume List
Table 2020-2030 Spain Dry Strip System Import & Export List

Table 2020-2030 Belgium Dry Strip System Market Size and Market Volume List
Table 2020-2030 Belgium Dry Strip System Import & Export List
Table 2020-2030 Netherlands Dry Strip System Market Size and Market Volume List
Table 2020-2030 Netherlands Dry Strip System Import & Export List
Table 2020-2030 Austria Dry Strip System Market Size and Market Volume List
Table 2020-2030 Austria Dry Strip System Import & Export List
Table 2020-2030 Poland Dry Strip System Market Size and Market Volume List
Table 2020-2030 Poland Dry Strip System Import & Export List
Table 2020-2030 Russia Dry Strip System Market Size and Market Volume List
Table 2020-2030 Russia Dry Strip System Import & Export List
Table 2020-2030 MEA Dry Strip System Market Size and Market Volume List
Figure 2020-2030 MEA Dry Strip System Market Size and CAGR
Figure 2020-2030 MEA Dry Strip System Market Volume and CAGR
Table 2020-2030 MEA Dry Strip System Demand List by Application
Table 2020-2025 MEA Dry Strip System Key Players Sales List
Table 2020-2025 MEA Dry Strip System Key Players Market Share List
Table 2020-2030 MEA Dry Strip System Demand List by Type
Table 2020-2025 MEA Dry Strip System Price List by Type
Table 2020-2030 Egypt Dry Strip System Market Size and Market Volume List
Table 2020-2030 Egypt Dry Strip System Import & Export List
Table 2020-2030 Israel Dry Strip System Market Size and Market Volume List
Table 2020-2030 Israel Dry Strip System Import & Export List
Table 2020-2030 South Africa Dry Strip System Market Size and Market Volume List
Table 2020-2030 South Africa Dry Strip System Import & Export List
Table 2020-2030 Gulf Cooperation Council Countries Dry Strip System Market Size and Market Volume List
Table 2020-2030 Gulf Cooperation Council Countries Dry Strip System Import & Export List
Table 2020-2030 Turkey Dry Strip System Market Size and Market Volume List
Table 2020-2030 Turkey Dry Strip System Import & Export List
Table 2020-2025 Global Dry Strip System Market Size List by Region
Table 2020-2025 Global Dry Strip System Market Size Share List by Region
Table 2020-2025 Global Dry Strip System Market Volume List by Region
Table 2020-2025 Global Dry Strip System Market Volume Share List by Region
Table 2020-2025 Global Dry Strip System Demand List by Application
Table 2020-2025 Global Dry Strip System Demand Market Share List by Application
Table 2020-2025 Global Dry Strip System Key Vendors Sales List
Table 2020-2025 Global Dry Strip System Key Vendors Sales Share List
Figure 2020-2025 Global Dry Strip System Market Volume and Growth Rate

Table 2020-2025 Global Dry Strip System Key Vendors Revenue List	
Figure 2020-2025 Global Dry Strip System Market Size and Growth Rate	
Table 2020-2025 Global Dry Strip System Key Vendors Revenue Share List	
Table 2020-2025 Global Dry Strip System Demand List by Type	
Table 2020-2025 Global Dry Strip System Demand Market Share List by Type	
Table 2020-2025 Regional Dry Strip System Price List	
Table 2025-2030 Global Dry Strip System Market Size List by Region	
Table 2025-2030 Global Dry Strip System Market Size Share List by Region	
Table 2025-2030 Global Dry Strip System Market Volume List by Region	
Table 2025-2030 Global Dry Strip System Market Volume Share List by Region	
Table 2025-2030 Global Dry Strip System Demand List by Application	
Table 2025-2030 Global Dry Strip System Demand Market Share List by Application	
Table 2025-2030 Global Dry Strip System Key Vendors Sales List	
Table 2025-2030 Global Dry Strip System Key Vendors Sales Share List	
Figure 2025-2030 Global Dry Strip System Market Volume and Growth Rate	
Table 2025-2030 Global Dry Strip System Key Vendors Revenue List	
Figure 2025-2030 Global Dry Strip System Market Size and Growth Rate	
Table 2025-2030 Global Dry Strip System Key Vendors Revenue Share List	
Table 2025-2030 Global Dry Strip System Demand List by Type	
Table 2025-2030 Global Dry Strip System Demand Market Share List by Type	
Table 2025-2030 Dry Strip System Regional Price List	
Table Lam Research Information	
Table SWOT Analysis of Lam Research	
Table 2020-2025 Lam Research Dry Strip System Sale Volume Price Cost Revenue	
Figure 2020-2025 Lam Research Dry Strip System Sale Volume and Growth Rate	
Figure 2020-2025 Lam Research Dry Strip System Market Share	
Table Hitachi High-Tech Information	
Table SWOT Analysis of Hitachi High-Tech	
Table 2020-2025 Hitachi High-Tech Dry Strip System Sale Volume Price Cost Revenue	
Figure 2020-2025 Hitachi High-Tech Dry Strip System Sale Volume and Growth Rate	
Figure 2020-2025 Hitachi High-Tech Dry Strip System Market Share	
Table PSK Inc Information	
Table SWOT Analysis of PSK Inc	
Table 2020-2025 PSK Inc Dry Strip System Sale Volume Price Cost Revenue	
Figure 2020-2025 PSK Inc Dry Strip System Sale Volume and Growth Rate	
Figure 2020-2025 PSK Inc Dry Strip System Market Share	
Table TES Information	
Table SWOT Analysis of TES	
Table 2020-2025 TES Dry Strip System Sale Volume Price Cost Revenue	

Figure 2020-2025 TES Dry Strip System Sale Volume and Growth Rate

Figure 2020-2025 TES Dry Strip System Market Share

Table Alfa Laval Information

Table SWOT Analysis of Alfa Laval

Table 2020-2025 Alfa Laval Dry Strip System Sale Volume Price Cost Revenue

Figure 2020-2025 Alfa Laval Dry Strip System Sale Volume and Growth Rate

Figure 2020-2025 Alfa Laval Dry Strip System Market Share

Table Beijing E-Town Information

Table SWOT Analysis of Beijing E-Town

Table 2020-2025 Beijing E-Town Dry Strip System Sale Volume Price Cost Revenue

Figure 2020-2025 Beijing E-Town Dry Strip System Sale Volume and Growth Rate

Figure 2020-2025 Beijing E-Town Dry Strip System Market Share

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