

# **Semiconductor Dry Strip Systems Market Report by Type (Element Semiconductor, Compound Semiconductor), Application (Consumer Electronics, Automotive, Industrial, and Others), and Region 2024-2032**

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## **Abstracts**

The global semiconductor dry strip systems market size reached US\$ 377.8 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 563.2 Million by 2032, exhibiting a growth rate (CAGR) of 4.4% during 2024-2032. The rising demand for consumer electronics, burgeoning semiconductor industry, and the increasing demand for high-quality semiconductor devices represent some of the key factors driving the market.

A semiconductor dry strip system is used to eliminate the masking layers from the wafer without causing any damage to surface materials. It comprises an inductively coupled plasma (ICP) source and a twin chamber design that operates independently with a dedicated vacuum transfer module for maximum process flexibility and extendibility. It is used for minimizing oxidation and silicon loss without damaging equipment while meeting the needs of advanced technology. It assists in removing hard mask materials, anti-reflective coating (ARC), organic residue, and dry film-resistant ash. It offers high plasma density, low particle performance, enhanced mean-time-between-clean, low consumable cost, and improved fluorine process capability. As it provides high surface integrity, precise wafer temperature control, and full-spectrum optical emission spectroscopy (OES) endpoint detection option, the demand for semiconductor dry strip system is rising across the globe.

**Semiconductor Dry Strip Systems Market Trends:**

At present, the rising demand for consumer electronics, such as smartphones, tablets,

and laptops, represents one of the key factors supporting the growth of the market. Besides this, key players are extensively investing in research and development (R&D) activities to introduce advanced dry strip that generates plasmas or gaseous chemistries to eliminate mask residues and films from wafers. They are also focusing on residue-free stripping and low-damage results while enhancing the strip capacity, which is propelling the growth of the market. In line with this, the growing demand for advanced semiconductor dry strip systems due to the increasing number and complexity of thin-film layers needed for each wafer is currently positively influencing the market. In addition, there is an increase in the demand for dry strip systems in cost-sensitive memory applications to provide advanced levels of productivity while maintaining the lowest cost of ownership across the globe. This, along with the thriving semiconductor industry, is offering lucrative growth opportunities to industry investors. Moreover, the increasing demand for high-quality semiconductor devices in the automotive industry is strengthening the growth of the market. Apart from this, governing agencies of several countries are investing in the semiconductor industry to promote the development of domestically manufactured equipment, which is offering a favorable market outlook.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global semiconductor dry strip systems market, along with forecasts at the global, regional, and country level from 2024-2032. Our report has categorized the market based on the type and application.

#### Type Insights:

Element Semiconductor  
Compound Semiconductor

The report has provided a detailed breakup and analysis of the semiconductor dry strip systems market based on the type. This includes element semiconductor and compound semiconductor.

#### Application Insights:

Consumer Electronics  
Automotive  
Industrial  
Others

A detailed breakup and analysis of the semiconductor dry strip systems market based on application has also been provided in the report. This includes consumer electronics, automotive, industrial, and others. According to the report, consumer electronics accounted for the largest market share.

#### Regional Insights:

North America

United States

Canada

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets that include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Asia Pacific was the largest market for semiconductor dry strip systems. Some of the factors

driving the Asia Pacific semiconductor dry strip systems market included the burgeoning semiconductor industry, rising sales of consumer electronics, increasing investments by governing agencies, etc.

#### Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global semiconductor dry strip systems market. Competitive analysis such as market structure, market share by key players, player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided. Some of the companies include Applied Materials Inc., Lam Research Corporation, Mattson Technology Inc., PSK Inc., etc.

#### Key Questions Answered in This Report:

How has the global semiconductor dry strip systems market performed so far and how will it perform in the coming years?

What are the drivers, restraints, and opportunities in the global semiconductor dry strip systems market?

What are the key regional markets?

Which countries represent the most attractive semiconductor dry strip systems markets?

What is the breakup of the market based on the type?

Which is the most attractive type in the semiconductor dry strip systems market?

What is the breakup of the market based on the application?

Which is the most attractive application in the semiconductor dry strip systems market?

What is the competitive structure of the global semiconductor dry strip systems market?

Who are the key players/companies in the global semiconductor dry strip systems market?

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