

Global Fully Automatic Thinning Machine Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/G49FD1603F8CEN.html>

Date: September 2025

Pages: 125

Price: US\$ 3,132.00 (Single User License)

ID: G49FD1603F8CEN

Abstracts

According to our (Global Info Research) latest study, the global Fully Automatic Thinning Machine market size was valued at US\$ 555 million in 2024 and is forecast to a readjusted size of USD 942 million by 2031 with a CAGR of 7.6% during review period.

A Fully Automatic Thinning Machine is a high-precision equipment used in the semiconductor manufacturing process to thin wafers to a specified thickness. The machine operates autonomously, performing grinding and polishing processes with minimal human intervention. It ensures high accuracy, efficiency, and consistency in thinning the wafer, which is essential for subsequent device packaging, testing, and integration. These machines are widely used for thinning silicon wafers and compound semiconductor wafers in applications such as microelectronics, power devices, and optoelectronics.

Wafer thinning is crucial for improving device performance, reducing material usage, and ensuring greater reliability of semiconductor devices. This market is expected to continue growing as the semiconductor industry advances towards smaller, faster, and more efficient technologies. The following report delves into the current state of the Fully Automatic Wafer Thinning Machine market, highlighting market share, trends, driving factors, and challenges faced by the industry.

Product Types:

300mm Wafer Thinning Machines dominate the global market, with a market share of approximately 83%. This substantial share is driven by the growing demand for 300mm

silicon wafers, which are primarily used in advanced semiconductor manufacturing. The increased utilization of 300mm wafers in manufacturing processes like microprocessors, memory chips, and integrated circuits (ICs) has propelled the market for 300mm Wafer Thinning Machines to the forefront.

Product Applications:

The application sectors for wafer thinning machines can also be segmented as follows:

Silicon Wafer: The primary application of wafer thinning machines is in silicon wafers, which account for over 90% of the global wafer thinning market. Silicon wafers are integral to the production of semiconductor devices, including processors, memory devices, sensors, and integrated circuits.

Compound Semiconductor Wafers: Though this segment is smaller compared to silicon wafers, compound semiconductors are increasingly gaining traction in the market. These semiconductors, including materials like gallium nitride (GaN) and silicon carbide (SiC), are critical for high-power, high-frequency, and optoelectronic applications.

Other Applications: A small percentage of the market is made up of wafers used for specialized applications, including optoelectronics and microelectronics.

Regional Distribution:

The Asia-Pacific (APAC) region dominates the wafer thinning machine market, accounting for approximately 78% of the global market share. The region's strong semiconductor manufacturing base, particularly in countries like China, South Korea, Japan, and Taiwan, makes it the largest consumer of wafer thinning equipment. Additionally, the presence of leading semiconductor companies in the APAC region contributes significantly to the demand for Fully Automatic Wafer Thinning Machines.

Market Drivers

The growing demand for advanced semiconductor devices and miniaturization of electronic products is the primary driver for the market's expansion. Key drivers include:

Miniaturization of Semiconductor Devices: As electronics continue to shrink in size, the need for thinner wafers has become paramount. Fully Automatic Wafer Thinning Machines enable the semiconductor industry to achieve the precise thickness required

for advanced applications in consumer electronics, automotive, telecommunications, and medical devices.

Increased Demand for Power-Efficient Devices: With the proliferation of devices such as smartphones, tablets, and electric vehicles (EVs), there is a growing demand for power-efficient semiconductors. Thinner wafers are essential in improving the overall energy efficiency of these devices by reducing power consumption.

Technological Advancements: The fully automatic wafer thinning process ensures high precision, minimal material wastage, and reduced cycle time. Technological developments in automated systems, precision equipment, and advanced grinding and polishing techniques are driving the market for Fully Automatic Wafer Thinning Machines.

Surge in Semiconductor Applications: The increasing applications of semiconductor devices in 5G technology, artificial intelligence (AI), automotive electronics, and high-performance computing further propel the need for wafer thinning equipment. For example, the automotive sector's transition to electric vehicles and the rise in demand for power electronics are contributing to the demand for Silicon Wafer Thinning Machines.

Growing Demand for Compound Semiconductors: Compound semiconductors like SiC and GaN are used in applications requiring high power, high frequency, and high efficiency. These materials are gaining popularity, and as a result, the demand for wafer thinning machines for these semiconductors is growing, albeit at a slower rate than for silicon wafers.

Market Restraints

Despite the growing demand and technological advancements, the market faces several challenges:

High Initial Investment Costs: Fully Automatic Wafer Thinning Machines are high-precision systems that require substantial upfront investment. The initial capital expenditure for these machines can be a barrier to entry for smaller semiconductor manufacturers, especially those in emerging economies.

Complex Manufacturing Process: While fully automated systems are ideal for large-scale production, the complexity of the wafer thinning process and the need for highly

skilled operators and advanced maintenance systems may limit adoption among less experienced manufacturers.

Material Loss During Thinning: Although Fully Automatic Wafer Thinning Machines are designed to minimize material loss, some degree of material wastage is inevitable during the thinning process. This results in increased production costs and affects the overall yield, which can be a deterrent for some manufacturers.

Fluctuations in Raw Material Costs: The market for semiconductor wafers is affected by fluctuations in the prices of raw materials like silicon, gallium, and silicon carbide. Any increase in the prices of these materials can drive up the overall production costs for wafer thinning machines and associated equipment.

Conclusion

The market for Fully Automatic Wafer Thinning Machines is positioned for significant growth in the coming years, driven by the increasing demand for advanced semiconductor devices and the continuous push towards miniaturization and power efficiency. The market is dominated by the use of 300mm wafers, with the silicon wafer segment holding the largest share of the market. While the Asia-Pacific region is the largest consumer of wafer thinning machines, emerging applications in electric vehicles, 5G, and power electronics will further accelerate market growth.

However, challenges such as high investment costs, complexity in manufacturing, and fluctuations in raw material prices must be addressed to maintain sustained market growth. With technological advancements and a rising demand for high-performance semiconductor devices, the market for Fully Automatic Wafer Thinning Machines is set to expand in line with the evolving needs of the semiconductor industry.

This report is a detailed and comprehensive analysis for global Fully Automatic Thinning Machine 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 Fully Automatic Thinning Machine market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Fully Automatic Thinning Machine market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Fully Automatic Thinning Machine market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Fully Automatic Thinning Machine market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2020-2025

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 Fully Automatic Thinning Machine
- 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 Fully Automatic Thinning Machine 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 Disco, TOKYO SEIMITSU, G&N, Okamoto Semiconductor Equipment Division, CETC, Koyo Machinery, Revasum, WAIDA MFG, Hunan Yujing Machine Industrial, SpeedFam, etc.

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

Market Segmentation

Fully Automatic Thinning Machine market is split by Type and by Application. For the period 2020-2031, 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

200mm Wafer Thinning Machine

300mm Wafer Thinning Machine

Others

Market segment by Application

Silicon Wafer

Compound Semiconductors

Others

Major players covered

Disco

TOKYO SEIMITSU

G&N

Okamoto Semiconductor Equipment Division

CETC

Koyo Machinery

Revasum

WAIDA MFG

Hunan Yujing Machine Industrial

SpeedFam

TSD

Engis Corporation

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 Fully Automatic Thinning Machine product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Fully Automatic Thinning Machine, with price, sales quantity, revenue, and global market share of Fully Automatic Thinning Machine from 2020 to 2025.

Chapter 3, the Fully Automatic Thinning Machine competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Fully Automatic Thinning Machine breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Fully Automatic Thinning Machine market forecast, by regions, by Type,

and by Application, with sales and revenue, from 2026 to 2031.

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 Fully Automatic Thinning Machine.

Chapter 14 and 15, to describe Fully Automatic Thinning Machine sales channel, distributors, customers, research findings and conclusion.

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