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Global Fully Automatic Dual-axis Thinning Machine Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Fully Automatic Dual-axis Thinning Machine market size is expected to reach $ 660 million by 2032, rising at a market growth of 6.9% CAGR during the forecast period (2026-2032).
In 2025, the global production of fully automatic dual-axis thinning machines was approximately 1,430 units, with an average selling price of approximately US$280,000 per unit. The production capacity in 2025 was 1,650 units, with an average gross profit margin of approximately 30-40%. A fully automatic dual-axis thinning machine is an automated grinding equipment used for the precision thinning of thin materials (such as semiconductor wafers and optical materials). It uses two simultaneously operating grinding wheel shafts to grind the product on a rotating workpiece table, and combines online thickness measurement and automatic feeding and unloading functions to precisely control the product to reach the set target thickness.
The upstream core raw materials mainly include high-precision servo motors and spindles, diamond grinding wheels and abrasive wheels, precision ceramic and silicon carbide components, high-end motion control systems and sensors, and other core mechanical and electrical components; the downstream applications are mainly in the semiconductor manufacturing and advanced packaging fields, specifically supporting the wafer thinning process of key products such as integrated circuits, microelectromechanical systems, and radio frequency devices.
Fully automatic dual-axis wafer thinning machines, as key equipment for advanced packaging and the manufacturing of specific semiconductor devices, are experiencing market demand driven by two core factors: firstly, the global semiconductor technology trend towards heterogeneous integration and miniaturization, which demands thinner wafers and stress-free processing; and secondly, the continuous deepening of China's semiconductor industry's self-reliance strategy, which is driving the demand for domestically produced high-end equipment. Currently, the market is dominated by

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international manufacturers such as Japan's DISCO, with high technological barriers and profit margins. However, leading domestic equipment manufacturers have made breakthroughs in core technologies and are rapidly penetrating high-end application fields such as 300mm wafer thinning, leveraging their cost-effectiveness and local service advantages. It is expected that the market will maintain steady growth in the coming years, and the competitive landscape will evolve from a single-technology competition to a comprehensive ecosystem competition encompassing process integration, customer service, and supply chain stability. Simultaneously, equipment intelligence (such as AI-driven process optimization) and modularization (integrated metrology and inspection) will become important directions for technological evolution.
This report studies the global Fully Automatic Dual-axis Thinning Machine production, demand, key manufacturers, and key regions.
This report is a detailed and comprehensive analysis of the world market for Fully Automatic Dual-axis Thinning Machine and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Fully Automatic Dual-axis Thinning Machine that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Fully Automatic Dual-axis Thinning Machine total production and demand, 2021-2032, (Units)
Global Fully Automatic Dual-axis Thinning Machine total production value, 2021-2032, (USD Million)
Global Fully Automatic Dual-axis Thinning Machine production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)
Global Fully Automatic Dual-axis Thinning Machine consumption by region & country, CAGR, 2021-2032 & (Units)
U.S. VS China: Fully Automatic Dual-axis Thinning Machine domestic production, consumption, key domestic manufacturers and share
Global Fully Automatic Dual-axis Thinning Machine production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)
Global Fully Automatic Dual-axis Thinning Machine production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)
Global Fully Automatic Dual-axis Thinning Machine production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)
This report profiles key players in the global Fully Automatic Dual-axis Thinning Machine market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key

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developments. Key companies covered as a part of this study include DISCO, G&N, OKAMOTO Corporation, ACCREtech, Chenxuan Semiconductor Equipment (Jiangsu), China Electronics Technology Group, Tesidi, Suzhou Chenxuan Photoelectricity Technology, etc.
This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.
Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Fully Automatic Dual-axis Thinning Machine market
Detailed Segmentation:
Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Units) and average price (K US$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.
Global Fully Automatic Dual-axis Thinning Machine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Fully Automatic Dual-axis Thinning Machine Market, Segmentation by Type:

Grinding Thinner

Polishing Thinner

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Others

Global Fully Automatic Dual-axis Thinning Machine Market, Segmentation by Applicable Product Sizes:

200mm Wafer

300mm Wafer

Others

Global Fully Automatic Dual-axis Thinning Machine Market, Segmentation by Size Compatibility:

Single-Size Compatible

Multi-Size Compatible

Global Fully Automatic Dual-axis Thinning Machine Market, Segmentation by Application:

Semiconductor Manufacturing

Optical Component Processing

Others

Companies Profiled:

DISCO

G&N

OKAMOTO Corporation

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ACCREtech

Chenxuan Semiconductor Equipment (Jiangsu)

China Electronics Technology Group

Tesidi

Suzhou Chenxuan Photoelectricity Technology

Key Questions Answered:

1. How big is the global Fully Automatic Dual-axis Thinning Machine market?
2. What is the demand of the global Fully Automatic Dual-axis Thinning Machine market?
3. What is the year over year growth of the global Fully Automatic Dual-axis Thinning Machine market?
4. What is the production and production value of the global Fully Automatic Dual-axis Thinning Machine market?
5. Who are the key producers in the global Fully Automatic Dual-axis Thinning Machine market?
6. What are the growth factors driving the market demand?

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