

Global Silicon Wafer Grinding Machine Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Silicon Wafer Grinding Machine market size was valued at US\$ 1056 million in 2024 and is forecast to a readjusted size of USD 1553 million by 2031 with a CAGR of 5.4% during review period.

A Silicon Wafer Grinding Machine is a specialized equipment used in the semiconductor manufacturing process for grinding and thinning silicon wafers. It is primarily used to reduce the thickness of silicon wafers to meet specific requirements for various semiconductor applications. Grinding machines for silicon wafers offer precise control over the thickness reduction process, ensuring high-quality surface finish, flatness, and uniformity across the wafer. This machine is essential in the production of microelectronics, including integrated circuits (ICs), solar cells, and other advanced semiconductor components. Silicon wafer grinding typically follows the slicing and dicing stages in wafer fabrication, helping to achieve the desired mechanical properties and prepare the wafer for further processing, such as chemical mechanical polishing (CMP) or bonding.

The Silicon Wafer Grinding Machines including wafer thinning machines and edge grinding machines, the market is divided into two main categories: Full-Automatic Thinning Machines and Semi-Automatic Thinning Machines. Full-Automatic Thinning Machines dominate the market, accounting for approximately 52% of the global share. These machines are preferred in large-scale semiconductor manufacturing environments due to their efficiency, precision, and the ability to operate without significant human intervention. They can process high volumes of wafers quickly and consistently, making them suitable for high-throughput manufacturing processes.

On the other hand, Semi-Automatic Thinning Machines require more human intervention during the wafer thinning process. These machines are typically used in lower-volume production settings or when greater flexibility is needed for specialized applications. Semi-automatic thinning equipment provides manufacturers with a balance between automation and customization, offering more control over the thinning process for specific wafer types or applications.

Silicon Wafer Grinding Machine serves various applications, most notably in the processing of 300mm wafers, which account for a significant portion of the global market. Approximately 83% of the demand for wafer thinning equipment comes from the 300mm wafer segment. This is because 300mm wafers provide a more cost-effective solution for mass production of semiconductor devices. Larger wafers allow manufacturers to produce more chips per wafer, which reduces the overall cost per unit, making them highly desirable for the production of consumer electronics, automotive components, and other advanced technologies.

The Asia-Pacific region is the largest consumer of Silicon Wafer Grinding Machine, accounting for 78% of the global market share. The region is home to some of the largest semiconductor manufacturing hubs, including China, Taiwan, Japan, and South Korea. These countries have established themselves as leaders in the semiconductor industry, making the Asia-Pacific region a key player in the global Silicon Wafer Grinding Machine market. The demand for semiconductor devices in this region is driven by the rapidly growing electronics, automotive, and telecommunications sectors, further fueling the need for wafer thinning technologies.

Several factors are driving the growth of the Silicon Wafer Grinding Machine market. First, the increasing demand for smaller, more powerful, and energy-efficient electronic devices is driving the need for advanced wafer thinning technologies. As electronics continue to evolve, there is a growing need to reduce the size and weight of devices without sacrificing performance. This has led to a heightened demand for thinner wafers, which can be used in smaller and more compact devices, such as smartphones, wearables, and IoT devices.

Additionally, the shift toward larger wafer sizes, particularly 300mm wafers, has contributed to the growth of the market. Larger wafers allow semiconductor manufacturers to produce more chips per wafer, increasing production efficiency and reducing costs. This trend is further supported by the ongoing advancements in semiconductor technology, which are pushing for the development of more powerful and energy-efficient components. The ability to produce more chips from a single wafer

while maintaining high performance is a key factor in the growing popularity of 300mm wafers.

The demand for semiconductor devices in a wide range of industries is also contributing to the growth of Silicon Wafer Grinding Machine. The automotive industry, in particular, is a major driver of demand, as the adoption of electric vehicles (EVs), autonomous vehicles, and advanced driver assistance systems (ADAS) requires the production of highly specialized semiconductors. Similarly, the telecommunications sector is experiencing significant growth with the roll-out of 5G networks, which require advanced semiconductors for faster data transmission and connectivity.

Despite the favorable market conditions, there are several challenges that could hinder the growth of the Silicon Wafer Grinding Machine market. One of the main obstacles is the high initial investment cost associated with full-automatic thinning machines. These machines are complex, and their high price can be a barrier for smaller manufacturers or those in developing markets. The capital-intensive nature of wafer thinning equipment may limit its adoption in certain regions, particularly among companies with limited resources.

Another challenge is the complexity of the wafer thinning process itself. Thinning wafers requires high levels of precision to ensure that the wafer's integrity is maintained throughout the process. Any damage to the wafer during thinning can result in significant yield loss, which can be costly for manufacturers. While advancements in equipment technology have improved the precision and reliability of wafer thinning machines, the process still requires careful monitoring to minimize the risk of damage.

Finally, supply chain disruptions and the availability of key components may pose a challenge to the Silicon Wafer Grinding Machine market. The semiconductor industry has faced ongoing supply chain challenges, including delays in the delivery of raw materials and components, which could affect the production and delivery of wafer thinning equipment. Manufacturers must navigate these challenges to ensure the timely production and delivery of their equipment.

In conclusion, the Silicon Wafer Grinding Machine market is poised for continued growth, driven by the increasing demand for smaller, more powerful, and energy-efficient electronic devices. Full-automatic thinning machines will continue to dominate the market due to their efficiency and ability to handle high-volume production. The growing adoption of 300mm wafers, particularly in semiconductor manufacturing, will further drive demand for wafer thinning technologies. The Asia-Pacific region will remain

a key market, fueled by the presence of major semiconductor manufacturing hubs and the increasing demand for advanced semiconductor devices across industries. However, the market will need to address challenges such as high investment costs, process complexity, and supply chain disruptions to sustain its growth.

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

Global Silicon Wafer Grinding 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 Silicon Wafer Grinding 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 Silicon Wafer Grinding 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 Silicon Wafer Grinding 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 Silicon Wafer Grinding 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

Silicon Wafer Grinding 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

Semi-automatic

Full-automatic

Market segment by Application

200mm Wafer

300mm Wafer

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

NTS

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 Silicon Wafer Grinding Machine product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Silicon Wafer Grinding Machine, with price, sales quantity, revenue, and global market share of Silicon Wafer Grinding Machine from 2020 to 2025.

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

Chapter 4, the Silicon Wafer Grinding 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 Silicon Wafer Grinding 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 Silicon Wafer Grinding Machine.

Chapter 14 and 15, to describe Silicon Wafer Grinding Machine 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 Silicon Wafer Grinding Machine Consumption Value by Type: 2020 Versus 2024 Versus 2031

1.3.2 Semi-automatic

1.3.3 Full-automatic

1.4 Market Analysis by Application

1.4.1 Overview: Global Silicon Wafer Grinding Machine Consumption Value by Application: 2020 Versus 2024 Versus 2031

1.4.2 200mm Wafer

1.4.3 300mm Wafer

1.4.4 Others

1.5 Global Silicon Wafer Grinding Machine Market Size & Forecast

1.5.1 Global Silicon Wafer Grinding Machine Consumption Value (2020 & 2024 & 2031)

1.5.2 Global Silicon Wafer Grinding Machine Sales Quantity (2020-2031)

1.5.3 Global Silicon Wafer Grinding Machine Average Price (2020-2031)

2 MANUFACTURERS PROFILES

2.1 Disco

2.1.1 Disco Details

2.1.2 Disco Major Business

2.1.3 Disco Silicon Wafer Grinding Machine Product and Services

2.1.4 Disco Silicon Wafer Grinding Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.1.5 Disco Recent Developments/Updates

2.2 TOKYO SEIMITSU

2.2.1 TOKYO SEIMITSU Details

2.2.2 TOKYO SEIMITSU Major Business

2.2.3 TOKYO SEIMITSU Silicon Wafer Grinding Machine Product and Services

2.2.4 TOKYO SEIMITSU Silicon Wafer Grinding Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.2.5 TOKYO SEIMITSU Recent Developments/Updates

2.3 G&N

2.3.1 G&N Details

2.3.2 G&N Major Business

2.3.3 G&N Silicon Wafer Grinding Machine Product and Services

2.3.4 G&N Silicon Wafer Grinding Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.3.5 G&N Recent Developments/Updates

2.4 Okamoto Semiconductor Equipment Division

2.4.1 Okamoto Semiconductor Equipment Division Details

2.4.2 Okamoto Semiconductor Equipment Division Major Business

2.4.3 Okamoto Semiconductor Equipment Division Silicon Wafer Grinding Machine Product and Services

2.4.4 Okamoto Semiconductor Equipment Division Silicon Wafer Grinding Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.4.5 Okamoto Semiconductor Equipment Division Recent Developments/Updates

2.5 CETC

2.5.1 CETC Details

2.5.2 CETC Major Business

2.5.3 CETC Silicon Wafer Grinding Machine Product and Services

2.5.4 CETC Silicon Wafer Grinding Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.5.5 CETC Recent Developments/Updates

2.6 Koyo Machinery

2.6.1 Koyo Machinery Details

2.6.2 Koyo Machinery Major Business

2.6.3 Koyo Machinery Silicon Wafer Grinding Machine Product and Services

2.6.4 Koyo Machinery Silicon Wafer Grinding Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.6.5 Koyo Machinery Recent Developments/Updates

2.7 Revasum

2.7.1 Revasum Details

2.7.2 Revasum Major Business

2.7.3 Revasum Silicon Wafer Grinding Machine Product and Services

2.7.4 Revasum Silicon Wafer Grinding Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.7.5 Revasum Recent Developments/Updates

2.8 WAIDA MFG

2.8.1 WAIDA MFG Details

2.8.2 WAIDA MFG Major Business

- 2.8.3 WAIDA MFG Silicon Wafer Grinding Machine Product and Services
- 2.8.4 WAIDA MFG Silicon Wafer Grinding Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.8.5 WAIDA MFG Recent Developments/Updates
- 2.9 Hunan Yujing Machine Industrial
 - 2.9.1 Hunan Yujing Machine Industrial Details
 - 2.9.2 Hunan Yujing Machine Industrial Major Business
 - 2.9.3 Hunan Yujing Machine Industrial Silicon Wafer Grinding Machine Product and Services
 - 2.9.4 Hunan Yujing Machine Industrial Silicon Wafer Grinding Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.9.5 Hunan Yujing Machine Industrial Recent Developments/Updates
- 2.10 SpeedFam
 - 2.10.1 SpeedFam Details
 - 2.10.2 SpeedFam Major Business
 - 2.10.3 SpeedFam Silicon Wafer Grinding Machine Product and Services
 - 2.10.4 SpeedFam Silicon Wafer Grinding Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.10.5 SpeedFam Recent Developments/Updates
- 2.11 TSD
 - 2.11.1 TSD Details
 - 2.11.2 TSD Major Business
 - 2.11.3 TSD Silicon Wafer Grinding Machine Product and Services
 - 2.11.4 TSD Silicon Wafer Grinding Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.11.5 TSD Recent Developments/Updates
- 2.12 Engis Corporation
 - 2.12.1 Engis Corporation Details
 - 2.12.2 Engis Corporation Major Business
 - 2.12.3 Engis Corporation Silicon Wafer Grinding Machine Product and Services
 - 2.12.4 Engis Corporation Silicon Wafer Grinding Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.12.5 Engis Corporation Recent Developments/Updates
- 2.13 NTS
 - 2.13.1 NTS Details
 - 2.13.2 NTS Major Business
 - 2.13.3 NTS Silicon Wafer Grinding Machine Product and Services
 - 2.13.4 NTS Silicon Wafer Grinding Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.13.5 NTS Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: SILICON WAFER GRINDING MACHINE BY MANUFACTURER

3.1 Global Silicon Wafer Grinding Machine Sales Quantity by Manufacturer (2020-2025)

3.2 Global Silicon Wafer Grinding Machine Revenue by Manufacturer (2020-2025)

3.3 Global Silicon Wafer Grinding Machine Average Price by Manufacturer (2020-2025)

3.4 Market Share Analysis (2024)

3.4.1 Producer Shipments of Silicon Wafer Grinding Machine by Manufacturer Revenue (\$MM) and Market Share (%): 2024

3.4.2 Top 3 Silicon Wafer Grinding Machine Manufacturer Market Share in 2024

3.4.3 Top 6 Silicon Wafer Grinding Machine Manufacturer Market Share in 2024

3.5 Silicon Wafer Grinding Machine Market: Overall Company Footprint Analysis

3.5.1 Silicon Wafer Grinding Machine Market: Region Footprint

3.5.2 Silicon Wafer Grinding Machine Market: Company Product Type Footprint

3.5.3 Silicon Wafer Grinding Machine 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 Silicon Wafer Grinding Machine Market Size by Region

4.1.1 Global Silicon Wafer Grinding Machine Sales Quantity by Region (2020-2031)

4.1.2 Global Silicon Wafer Grinding Machine Consumption Value by Region (2020-2031)

4.1.3 Global Silicon Wafer Grinding Machine Average Price by Region (2020-2031)

4.2 North America Silicon Wafer Grinding Machine Consumption Value (2020-2031)

4.3 Europe Silicon Wafer Grinding Machine Consumption Value (2020-2031)

4.4 Asia-Pacific Silicon Wafer Grinding Machine Consumption Value (2020-2031)

4.5 South America Silicon Wafer Grinding Machine Consumption Value (2020-2031)

4.6 Middle East & Africa Silicon Wafer Grinding Machine Consumption Value (2020-2031)

5 MARKET SEGMENT BY TYPE

5.1 Global Silicon Wafer Grinding Machine Sales Quantity by Type (2020-2031)

5.2 Global Silicon Wafer Grinding Machine Consumption Value by Type (2020-2031)

5.3 Global Silicon Wafer Grinding Machine Average Price by Type (2020-2031)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Silicon Wafer Grinding Machine Sales Quantity by Application (2020-2031)

6.2 Global Silicon Wafer Grinding Machine Consumption Value by Application (2020-2031)

6.3 Global Silicon Wafer Grinding Machine Average Price by Application (2020-2031)

7 NORTH AMERICA

7.1 North America Silicon Wafer Grinding Machine Sales Quantity by Type (2020-2031)

7.2 North America Silicon Wafer Grinding Machine Sales Quantity by Application (2020-2031)

7.3 North America Silicon Wafer Grinding Machine Market Size by Country

7.3.1 North America Silicon Wafer Grinding Machine Sales Quantity by Country (2020-2031)

7.3.2 North America Silicon Wafer Grinding Machine Consumption Value by Country (2020-2031)

7.3.3 United States Market Size and Forecast (2020-2031)

7.3.4 Canada Market Size and Forecast (2020-2031)

7.3.5 Mexico Market Size and Forecast (2020-2031)

8 EUROPE

8.1 Europe Silicon Wafer Grinding Machine Sales Quantity by Type (2020-2031)

8.2 Europe Silicon Wafer Grinding Machine Sales Quantity by Application (2020-2031)

8.3 Europe Silicon Wafer Grinding Machine Market Size by Country

8.3.1 Europe Silicon Wafer Grinding Machine Sales Quantity by Country (2020-2031)

8.3.2 Europe Silicon Wafer Grinding Machine Consumption Value by Country (2020-2031)

8.3.3 Germany Market Size and Forecast (2020-2031)

8.3.4 France Market Size and Forecast (2020-2031)

8.3.5 United Kingdom Market Size and Forecast (2020-2031)

8.3.6 Russia Market Size and Forecast (2020-2031)

8.3.7 Italy Market Size and Forecast (2020-2031)

9 ASIA-PACIFIC

9.1 Asia-Pacific Silicon Wafer Grinding Machine Sales Quantity by Type (2020-2031)

9.2 Asia-Pacific Silicon Wafer Grinding Machine Sales Quantity by Application (2020-2031)

9.3 Asia-Pacific Silicon Wafer Grinding Machine Market Size by Region

9.3.1 Asia-Pacific Silicon Wafer Grinding Machine Sales Quantity by Region (2020-2031)

9.3.2 Asia-Pacific Silicon Wafer Grinding Machine Consumption Value by Region (2020-2031)

9.3.3 China Market Size and Forecast (2020-2031)

9.3.4 Japan Market Size and Forecast (2020-2031)

9.3.5 South Korea Market Size and Forecast (2020-2031)

9.3.6 India Market Size and Forecast (2020-2031)

9.3.7 Southeast Asia Market Size and Forecast (2020-2031)

9.3.8 Australia Market Size and Forecast (2020-2031)

10 SOUTH AMERICA

10.1 South America Silicon Wafer Grinding Machine Sales Quantity by Type (2020-2031)

10.2 South America Silicon Wafer Grinding Machine Sales Quantity by Application (2020-2031)

10.3 South America Silicon Wafer Grinding Machine Market Size by Country

10.3.1 South America Silicon Wafer Grinding Machine Sales Quantity by Country (2020-2031)

10.3.2 South America Silicon Wafer Grinding Machine Consumption Value by Country (2020-2031)

10.3.3 Brazil Market Size and Forecast (2020-2031)

10.3.4 Argentina Market Size and Forecast (2020-2031)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Silicon Wafer Grinding Machine Sales Quantity by Type (2020-2031)

11.2 Middle East & Africa Silicon Wafer Grinding Machine Sales Quantity by Application (2020-2031)

11.3 Middle East & Africa Silicon Wafer Grinding Machine Market Size by Country

11.3.1 Middle East & Africa Silicon Wafer Grinding Machine Sales Quantity by Country (2020-2031)

11.3.2 Middle East & Africa Silicon Wafer Grinding Machine Consumption Value by Country (2020-2031)

- 11.3.3 Turkey Market Size and Forecast (2020-2031)
- 11.3.4 Egypt Market Size and Forecast (2020-2031)
- 11.3.5 Saudi Arabia Market Size and Forecast (2020-2031)
- 11.3.6 South Africa Market Size and Forecast (2020-2031)

12 MARKET DYNAMICS

- 12.1 Silicon Wafer Grinding Machine Market Drivers
- 12.2 Silicon Wafer Grinding Machine Market Restraints
- 12.3 Silicon Wafer Grinding Machine 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 Silicon Wafer Grinding Machine and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Silicon Wafer Grinding Machine
- 13.3 Silicon Wafer Grinding Machine 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 Silicon Wafer Grinding Machine Typical Distributors
- 14.3 Silicon Wafer Grinding Machine 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 Silicon Wafer Grinding Machine Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global Silicon Wafer Grinding Machine Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. Disco Basic Information, Manufacturing Base and Competitors

Table 4. Disco Major Business

Table 5. Disco Silicon Wafer Grinding Machine Product and Services

Table 6. Disco Silicon Wafer Grinding Machine Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 7. Disco Recent Developments/Updates

Table 8. TOKYO SEIMITSU Basic Information, Manufacturing Base and Competitors

Table 9. TOKYO SEIMITSU Major Business

Table 10. TOKYO SEIMITSU Silicon Wafer Grinding Machine Product and Services

Table 11. TOKYO SEIMITSU Silicon Wafer Grinding Machine Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 12. TOKYO SEIMITSU Recent Developments/Updates

Table 13. G&N Basic Information, Manufacturing Base and Competitors

Table 14. G&N Major Business

Table 15. G&N Silicon Wafer Grinding Machine Product and Services

Table 16. G&N Silicon Wafer Grinding Machine Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 17. G&N Recent Developments/Updates

Table 18. Okamoto Semiconductor Equipment Division Basic Information, Manufacturing Base and Competitors

Table 19. Okamoto Semiconductor Equipment Division Major Business

Table 20. Okamoto Semiconductor Equipment Division Silicon Wafer Grinding Machine Product and Services

Table 21. Okamoto Semiconductor Equipment Division Silicon Wafer Grinding Machine Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 22. Okamoto Semiconductor Equipment Division Recent Developments/Updates

Table 23. CETC Basic Information, Manufacturing Base and Competitors

Table 24. CETC Major Business

Table 25. CETC Silicon Wafer Grinding Machine Product and Services

Table 26. CETC Silicon Wafer Grinding Machine Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 27. CETC Recent Developments/Updates

Table 28. Koyo Machinery Basic Information, Manufacturing Base and Competitors

Table 29. Koyo Machinery Major Business

Table 30. Koyo Machinery Silicon Wafer Grinding Machine Product and Services

Table 31. Koyo Machinery Silicon Wafer Grinding Machine Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 32. Koyo Machinery Recent Developments/Updates

Table 33. Revasum Basic Information, Manufacturing Base and Competitors

Table 34. Revasum Major Business

Table 35. Revasum Silicon Wafer Grinding Machine Product and Services

Table 36. Revasum Silicon Wafer Grinding Machine Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 37. Revasum Recent Developments/Updates

Table 38. WAIDA MFG Basic Information, Manufacturing Base and Competitors

Table 39. WAIDA MFG Major Business

Table 40. WAIDA MFG Silicon Wafer Grinding Machine Product and Services

Table 41. WAIDA MFG Silicon Wafer Grinding Machine Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 42. WAIDA MFG Recent Developments/Updates

Table 43. Hunan Yujing Machine Industrial Basic Information, Manufacturing Base and Competitors

Table 44. Hunan Yujing Machine Industrial Major Business

Table 45. Hunan Yujing Machine Industrial Silicon Wafer Grinding Machine Product and Services

Table 46. Hunan Yujing Machine Industrial Silicon Wafer Grinding Machine Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 47. Hunan Yujing Machine Industrial Recent Developments/Updates

Table 48. SpeedFam Basic Information, Manufacturing Base and Competitors

Table 49. SpeedFam Major Business

Table 50. SpeedFam Silicon Wafer Grinding Machine Product and Services

Table 51. SpeedFam Silicon Wafer Grinding Machine Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 52. SpeedFam Recent Developments/Updates
Table 53. TSD Basic Information, Manufacturing Base and Competitors
Table 54. TSD Major Business
Table 55. TSD Silicon Wafer Grinding Machine Product and Services
Table 56. TSD Silicon Wafer Grinding Machine Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 57. TSD Recent Developments/Updates
Table 58. Engis Corporation Basic Information, Manufacturing Base and Competitors
Table 59. Engis Corporation Major Business
Table 60. Engis Corporation Silicon Wafer Grinding Machine Product and Services
Table 61. Engis Corporation Silicon Wafer Grinding Machine Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 62. Engis Corporation Recent Developments/Updates
Table 63. NTS Basic Information, Manufacturing Base and Competitors
Table 64. NTS Major Business
Table 65. NTS Silicon Wafer Grinding Machine Product and Services
Table 66. NTS Silicon Wafer Grinding Machine Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 67. NTS Recent Developments/Updates
Table 68. Global Silicon Wafer Grinding Machine Sales Quantity by Manufacturer (2020-2025) & (Units)
Table 69. Global Silicon Wafer Grinding Machine Revenue by Manufacturer (2020-2025) & (USD Million)
Table 70. Global Silicon Wafer Grinding Machine Average Price by Manufacturer (2020-2025) & (K US\$/Unit)
Table 71. Market Position of Manufacturers in Silicon Wafer Grinding Machine, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024
Table 72. Head Office and Silicon Wafer Grinding Machine Production Site of Key Manufacturer
Table 73. Silicon Wafer Grinding Machine Market: Company Product Type Footprint
Table 74. Silicon Wafer Grinding Machine Market: Company Product Application Footprint
Table 75. Silicon Wafer Grinding Machine New Market Entrants and Barriers to Market Entry
Table 76. Silicon Wafer Grinding Machine Mergers, Acquisition, Agreements, and Collaborations
Table 77. Global Silicon Wafer Grinding Machine Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR

Table 78. Global Silicon Wafer Grinding Machine Sales Quantity by Region (2020-2025) & (Units)

Table 79. Global Silicon Wafer Grinding Machine Sales Quantity by Region (2026-2031) & (Units)

Table 80. Global Silicon Wafer Grinding Machine Consumption Value by Region (2020-2025) & (USD Million)

Table 81. Global Silicon Wafer Grinding Machine Consumption Value by Region (2026-2031) & (USD Million)

Table 82. Global Silicon Wafer Grinding Machine Average Price by Region (2020-2025) & (K US\$/Unit)

Table 83. Global Silicon Wafer Grinding Machine Average Price by Region (2026-2031) & (K US\$/Unit)

Table 84. Global Silicon Wafer Grinding Machine Sales Quantity by Type (2020-2025) & (Units)

Table 85. Global Silicon Wafer Grinding Machine Sales Quantity by Type (2026-2031) & (Units)

Table 86. Global Silicon Wafer Grinding Machine Consumption Value by Type (2020-2025) & (USD Million)

Table 87. Global Silicon Wafer Grinding Machine Consumption Value by Type (2026-2031) & (USD Million)

Table 88. Global Silicon Wafer Grinding Machine Average Price by Type (2020-2025) & (K US\$/Unit)

Table 89. Global Silicon Wafer Grinding Machine Average Price by Type (2026-2031) & (K US\$/Unit)

Table 90. Global Silicon Wafer Grinding Machine Sales Quantity by Application (2020-2025) & (Units)

Table 91. Global Silicon Wafer Grinding Machine Sales Quantity by Application (2026-2031) & (Units)

Table 92. Global Silicon Wafer Grinding Machine Consumption Value by Application (2020-2025) & (USD Million)

Table 93. Global Silicon Wafer Grinding Machine Consumption Value by Application (2026-2031) & (USD Million)

Table 94. Global Silicon Wafer Grinding Machine Average Price by Application (2020-2025) & (K US\$/Unit)

Table 95. Global Silicon Wafer Grinding Machine Average Price by Application (2026-2031) & (K US\$/Unit)

Table 96. North America Silicon Wafer Grinding Machine Sales Quantity by Type (2020-2025) & (Units)

Table 97. North America Silicon Wafer Grinding Machine Sales Quantity by Type

(2026-2031) & (Units)

Table 98. North America Silicon Wafer Grinding Machine Sales Quantity by Application (2020-2025) & (Units)

Table 99. North America Silicon Wafer Grinding Machine Sales Quantity by Application (2026-2031) & (Units)

Table 100. North America Silicon Wafer Grinding Machine Sales Quantity by Country (2020-2025) & (Units)

Table 101. North America Silicon Wafer Grinding Machine Sales Quantity by Country (2026-2031) & (Units)

Table 102. North America Silicon Wafer Grinding Machine Consumption Value by Country (2020-2025) & (USD Million)

Table 103. North America Silicon Wafer Grinding Machine Consumption Value by Country (2026-2031) & (USD Million)

Table 104. Europe Silicon Wafer Grinding Machine Sales Quantity by Type (2020-2025) & (Units)

Table 105. Europe Silicon Wafer Grinding Machine Sales Quantity by Type (2026-2031) & (Units)

Table 106. Europe Silicon Wafer Grinding Machine Sales Quantity by Application (2020-2025) & (Units)

Table 107. Europe Silicon Wafer Grinding Machine Sales Quantity by Application (2026-2031) & (Units)

Table 108. Europe Silicon Wafer Grinding Machine Sales Quantity by Country (2020-2025) & (Units)

Table 109. Europe Silicon Wafer Grinding Machine Sales Quantity by Country (2026-2031) & (Units)

Table 110. Europe Silicon Wafer Grinding Machine Consumption Value by Country (2020-2025) & (USD Million)

Table 111. Europe Silicon Wafer Grinding Machine Consumption Value by Country (2026-2031) & (USD Million)

Table 112. Asia-Pacific Silicon Wafer Grinding Machine Sales Quantity by Type (2020-2025) & (Units)

Table 113. Asia-Pacific Silicon Wafer Grinding Machine Sales Quantity by Type (2026-2031) & (Units)

Table 114. Asia-Pacific Silicon Wafer Grinding Machine Sales Quantity by Application (2020-2025) & (Units)

Table 115. Asia-Pacific Silicon Wafer Grinding Machine Sales Quantity by Application (2026-2031) & (Units)

Table 116. Asia-Pacific Silicon Wafer Grinding Machine Sales Quantity by Region (2020-2025) & (Units)

Table 117. Asia-Pacific Silicon Wafer Grinding Machine Sales Quantity by Region (2026-2031) & (Units)

Table 118. Asia-Pacific Silicon Wafer Grinding Machine Consumption Value by Region (2020-2025) & (USD Million)

Table 119. Asia-Pacific Silicon Wafer Grinding Machine Consumption Value by Region (2026-2031) & (USD Million)

Table 120. South America Silicon Wafer Grinding Machine Sales Quantity by Type (2020-2025) & (Units)

Table 121. South America Silicon Wafer Grinding Machine Sales Quantity by Type (2026-2031) & (Units)

Table 122. South America Silicon Wafer Grinding Machine Sales Quantity by Application (2020-2025) & (Units)

Table 123. South America Silicon Wafer Grinding Machine Sales Quantity by Application (2026-2031) & (Units)

Table 124. South America Silicon Wafer Grinding Machine Sales Quantity by Country (2020-2025) & (Units)

Table 125. South America Silicon Wafer Grinding Machine Sales Quantity by Country (2026-2031) & (Units)

Table 126. South America Silicon Wafer Grinding Machine Consumption Value by Country (2020-2025) & (USD Million)

Table 127. South America Silicon Wafer Grinding Machine Consumption Value by Country (2026-2031) & (USD Million)

Table 128. Middle East & Africa Silicon Wafer Grinding Machine Sales Quantity by Type (2020-2025) & (Units)

Table 129. Middle East & Africa Silicon Wafer Grinding Machine Sales Quantity by Type (2026-2031) & (Units)

Table 130. Middle East & Africa Silicon Wafer Grinding Machine Sales Quantity by Application (2020-2025) & (Units)

Table 131. Middle East & Africa Silicon Wafer Grinding Machine Sales Quantity by Application (2026-2031) & (Units)

Table 132. Middle East & Africa Silicon Wafer Grinding Machine Sales Quantity by Country (2020-2025) & (Units)

Table 133. Middle East & Africa Silicon Wafer Grinding Machine Sales Quantity by Country (2026-2031) & (Units)

Table 134. Middle East & Africa Silicon Wafer Grinding Machine Consumption Value by Country (2020-2025) & (USD Million)

Table 135. Middle East & Africa Silicon Wafer Grinding Machine Consumption Value by Country (2026-2031) & (USD Million)

Table 136. Silicon Wafer Grinding Machine Raw Material

Table 137. Key Manufacturers of Silicon Wafer Grinding Machine Raw Materials

Table 138. Silicon Wafer Grinding Machine Typical Distributors

Table 139. Silicon Wafer Grinding Machine Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Silicon Wafer Grinding Machine Picture

Figure 2. Global Silicon Wafer Grinding Machine Revenue by Type, (USD Million), 2020 & 2024 & 2031

Figure 3. Global Silicon Wafer Grinding Machine Revenue Market Share by Type in 2024

Figure 4. Semi-automatic Examples

Figure 5. Full-automatic Examples

Figure 6. Global Silicon Wafer Grinding Machine Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Figure 7. Global Silicon Wafer Grinding Machine Revenue Market Share by Application in 2024

Figure 8. 200mm Wafer Examples

Figure 9. 300mm Wafer Examples

Figure 10. Others Examples

Figure 11. Global Silicon Wafer Grinding Machine Consumption Value, (USD Million): 2020 & 2024 & 2031

Figure 12. Global Silicon Wafer Grinding Machine Consumption Value and Forecast (2020-2031) & (USD Million)

Figure 13. Global Silicon Wafer Grinding Machine Sales Quantity (2020-2031) & (Units)

Figure 14. Global Silicon Wafer Grinding Machine Price (2020-2031) & (K US\$/Unit)

Figure 15. Global Silicon Wafer Grinding Machine Sales Quantity Market Share by Manufacturer in 2024

Figure 16. Global Silicon Wafer Grinding Machine Revenue Market Share by Manufacturer in 2024

Figure 17. Producer Shipments of Silicon Wafer Grinding Machine by Manufacturer Sales (\$MM) and Market Share (%): 2024

Figure 18. Top 3 Silicon Wafer Grinding Machine Manufacturer (Revenue) Market Share in 2024

Figure 19. Top 6 Silicon Wafer Grinding Machine Manufacturer (Revenue) Market Share in 2024

Figure 20. Global Silicon Wafer Grinding Machine Sales Quantity Market Share by Region (2020-2031)

Figure 21. Global Silicon Wafer Grinding Machine Consumption Value Market Share by Region (2020-2031)

Figure 22. North America Silicon Wafer Grinding Machine Consumption Value

(2020-2031) & (USD Million)

Figure 23. Europe Silicon Wafer Grinding Machine Consumption Value (2020-2031) & (USD Million)

Figure 24. Asia-Pacific Silicon Wafer Grinding Machine Consumption Value (2020-2031) & (USD Million)

Figure 25. South America Silicon Wafer Grinding Machine Consumption Value (2020-2031) & (USD Million)

Figure 26. Middle East & Africa Silicon Wafer Grinding Machine Consumption Value (2020-2031) & (USD Million)

Figure 27. Global Silicon Wafer Grinding Machine Sales Quantity Market Share by Type (2020-2031)

Figure 28. Global Silicon Wafer Grinding Machine Consumption Value Market Share by Type (2020-2031)

Figure 29. Global Silicon Wafer Grinding Machine Average Price by Type (2020-2031) & (K US\$/Unit)

Figure 30. Global Silicon Wafer Grinding Machine Sales Quantity Market Share by Application (2020-2031)

Figure 31. Global Silicon Wafer Grinding Machine Revenue Market Share by Application (2020-2031)

Figure 32. Global Silicon Wafer Grinding Machine Average Price by Application (2020-2031) & (K US\$/Unit)

Figure 33. North America Silicon Wafer Grinding Machine Sales Quantity Market Share by Type (2020-2031)

Figure 34. North America Silicon Wafer Grinding Machine Sales Quantity Market Share by Application (2020-2031)

Figure 35. North America Silicon Wafer Grinding Machine Sales Quantity Market Share by Country (2020-2031)

Figure 36. North America Silicon Wafer Grinding Machine Consumption Value Market Share by Country (2020-2031)

Figure 37. United States Silicon Wafer Grinding Machine Consumption Value (2020-2031) & (USD Million)

Figure 38. Canada Silicon Wafer Grinding Machine Consumption Value (2020-2031) & (USD Million)

Figure 39. Mexico Silicon Wafer Grinding Machine Consumption Value (2020-2031) & (USD Million)

Figure 40. Europe Silicon Wafer Grinding Machine Sales Quantity Market Share by Type (2020-2031)

Figure 41. Europe Silicon Wafer Grinding Machine Sales Quantity Market Share by Application (2020-2031)

Figure 42. Europe Silicon Wafer Grinding Machine Sales Quantity Market Share by Country (2020-2031)

Figure 43. Europe Silicon Wafer Grinding Machine Consumption Value Market Share by Country (2020-2031)

Figure 44. Germany Silicon Wafer Grinding Machine Consumption Value (2020-2031) & (USD Million)

Figure 45. France Silicon Wafer Grinding Machine Consumption Value (2020-2031) & (USD Million)

Figure 46. United Kingdom Silicon Wafer Grinding Machine Consumption Value (2020-2031) & (USD Million)

Figure 47. Russia Silicon Wafer Grinding Machine Consumption Value (2020-2031) & (USD Million)

Figure 48. Italy Silicon Wafer Grinding Machine Consumption Value (2020-2031) & (USD Million)

Figure 49. Asia-Pacific Silicon Wafer Grinding Machine Sales Quantity Market Share by Type (2020-2031)

Figure 50. Asia-Pacific Silicon Wafer Grinding Machine Sales Quantity Market Share by Application (2020-2031)

Figure 51. Asia-Pacific Silicon Wafer Grinding Machine Sales Quantity Market Share by Region (2020-2031)

Figure 52. Asia-Pacific Silicon Wafer Grinding Machine Consumption Value Market Share by Region (2020-2031)

Figure 53. China Silicon Wafer Grinding Machine Consumption Value (2020-2031) & (USD Million)

Figure 54. Japan Silicon Wafer Grinding Machine Consumption Value (2020-2031) & (USD Million)

Figure 55. South Korea Silicon Wafer Grinding Machine Consumption Value (2020-2031) & (USD Million)

Figure 56. India Silicon Wafer Grinding Machine Consumption Value (2020-2031) & (USD Million)

Figure 57. Southeast Asia Silicon Wafer Grinding Machine Consumption Value (2020-2031) & (USD Million)

Figure 58. Australia Silicon Wafer Grinding Machine Consumption Value (2020-2031) & (USD Million)

Figure 59. South America Silicon Wafer Grinding Machine Sales Quantity Market Share by Type (2020-2031)

Figure 60. South America Silicon Wafer Grinding Machine Sales Quantity Market Share by Application (2020-2031)

Figure 61. South America Silicon Wafer Grinding Machine Sales Quantity Market Share

by Country (2020-2031)

Figure 62. South America Silicon Wafer Grinding Machine Consumption Value Market Share by Country (2020-2031)

Figure 63. Brazil Silicon Wafer Grinding Machine Consumption Value (2020-2031) & (USD Million)

Figure 64. Argentina Silicon Wafer Grinding Machine Consumption Value (2020-2031) & (USD Million)

Figure 65. Middle East & Africa Silicon Wafer Grinding Machine Sales Quantity Market Share by Type (2020-2031)

Figure 66. Middle East & Africa Silicon Wafer Grinding Machine Sales Quantity Market Share by Application (2020-2031)

Figure 67. Middle East & Africa Silicon Wafer Grinding Machine Sales Quantity Market Share by Country (2020-2031)

Figure 68. Middle East & Africa Silicon Wafer Grinding Machine Consumption Value Market Share by Country (2020-2031)

Figure 69. Turkey Silicon Wafer Grinding Machine Consumption Value (2020-2031) & (USD Million)

Figure 70. Egypt Silicon Wafer Grinding Machine Consumption Value (2020-2031) & (USD Million)

Figure 71. Saudi Arabia Silicon Wafer Grinding Machine Consumption Value (2020-2031) & (USD Million)

Figure 72. South Africa Silicon Wafer Grinding Machine Consumption Value (2020-2031) & (USD Million)

Figure 73. Silicon Wafer Grinding Machine Market Drivers

Figure 74. Silicon Wafer Grinding Machine Market Restraints

Figure 75. Silicon Wafer Grinding Machine Market Trends

Figure 76. Porters Five Forces Analysis

Figure 77. Manufacturing Cost Structure Analysis of Silicon Wafer Grinding Machine in 2024

Figure 78. Manufacturing Process Analysis of Silicon Wafer Grinding Machine

Figure 79. Silicon Wafer Grinding Machine Industrial Chain

Figure 80. Sales Channel: Direct to End-User vs Distributors

Figure 81. Direct Channel Pros & Cons

Figure 82. Indirect Channel Pros & Cons

Figure 83. Methodology

Figure 84. Research Process and Data Source

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