

Global Wafer Surface Grinding Machine Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Wafer Surface Grinding Machine market size was valued at US\$ 1187 million in 2025 and is forecast to a readjusted size of US\$ 1963 million by 2032 with a CAGR of 7.4% during review period.

A wafer surface grinding machine is precision equipment that removes material from the front or back surface of a semiconductor wafer using a rotating abrasive wheel and controlled wafer chuck to achieve target thickness, total-thickness variation, flatness and surface condition. The market covers automatic and semi-automatic grinders for silicon, silicon carbide, gallium nitride and other brittle substrates used in wafer manufacturing, device thinning, power semiconductor production and advanced packaging.

Key Findings

Performance requirements drive specification-led supplier selection

Application engineering increasingly determines customer value creation

Lifecycle reliability supports durable competitive differentiation

Market Trends

Grinding platforms are evolving toward thinner wafers, tighter thickness variation, lower

subsurface damage and integrated grind-polish-clean flows. Silicon carbide expansion is driving higher-rigidity spindles, optimized wheels and real-time process monitoring, while advanced packaging requires reliable handling of warped, bonded and ultra-thin wafers.

Market Dynamics

Drivers

Demand is supported by thinner devices, stacked packaging, power semiconductors and silicon-carbide wafer processing, which require tighter thickness control and lower subsurface damage. Dual-spindle and multi-chuck automation, in-line thickness measurement, high-rigidity structures, optimized wheels and integrated grind-polish-clean flows are improving productivity and final surface quality. Infrastructure and manufacturing investment, tighter customer specifications and the economic value of higher yield or productivity reinforce adoption. Buyers increasingly evaluate qualified operating performance, process stability and lifecycle support rather than a single purchase-price metric.

Restraints

Precision spindles, metrology and motion systems carry high cost, while customer acceptance depends on lengthy material-specific trials and stable consumable performance. Qualification costs, capital discipline and switching risk lengthen purchasing decisions, particularly where process failure can interrupt production or reduce asset availability. Smaller suppliers also face difficulty funding application laboratories, validation inventory and geographically distributed service teams before revenue reaches scale.

Opportunities

Opportunities are strongest in SiC and GaN, advanced packaging, ultra-thin wafer handling, temporary bonding flows and localized production lines requiring application-specific process integration. Suppliers can create additional value through modular platforms, application engineering, digital monitoring, predictive maintenance and locally available service. Expansion into underpenetrated regions and replacement of older installed systems provide incremental demand, especially when solutions demonstrate

measurable savings in material, energy, downtime or process losses.

Challenges

Manufacturers must balance throughput, total-thickness variation, edge integrity and subsurface damage while maintaining uptime and global support for increasingly diverse brittle materials. Competitive intensity can compress pricing before suppliers recover development and qualification expenditure. Companies must also manage standards evolution, intellectual-property protection, customer concentration and cyclical capital spending while preserving product quality and long-term spare-parts availability. Sustainable growth therefore depends on disciplined project selection and repeatable delivery, not capacity expansion alone.

Industry Chain Analysis

Upstream value comes from precision components, power or motion-control electronics, specialty materials, sensors and control software. Midstream suppliers integrate engineering, assembly, calibration, testing and project-specific configuration into qualified systems. Downstream customers purchase through long validation cycles and depend on installation, recipes, spares and field service. Profitability therefore reflects intellectual property, manufacturing yield, installed-base service and the ability to manage critical-component supply more than hardware volume alone.

Segment Insights

Wafer Surface Grinding Machines can be categorized into semi-automatic and fully automatic types based on their automation level. Semi-automatic wafer surface grinding machines are mainly used in research and development, pilot production, small-batch manufacturing, and applications requiring high process flexibility. These machines feature lower equipment costs and greater operational adaptability, making them suitable for special wafer specifications and diversified production needs, but they face limitations in labor requirements, production efficiency, and batch consistency. Fully automatic wafer surface grinding machines integrate automated wafer loading and unloading, intelligent process parameter control, in-line inspection, and high-precision processing capabilities, enabling higher efficiency, stability, and yield performance in large-scale semiconductor manufacturing. With increasing wafer sizes, the advancement of semiconductor processes, and growing requirements for precision and

productivity, fully automatic wafer surface grinding machines are expected to capture stronger market demand, while semi-automatic equipment will continue to maintain stable applications in laboratories, process development, and small-to-medium scale manufacturing environments.

Downstream Market Opportunities

The strongest opportunities arise where customers face tighter quality specifications, higher throughput requirements and costly process failures. Suppliers that translate product performance into yield, construction productivity, grid availability or reduced operating consumption can deepen account penetration. Emerging demand favors application engineering, flexible configurations and lifecycle services rather than undifferentiated equipment or material supply.

Regional Insights

Asia-Pacific represents the largest demand base because it combines infrastructure or manufacturing investment with extensive local supply chains. China is also the principal incremental market in several applications, while Japan, Europe and North America retain strength in high-specification technology, installed-base replacement and premium service. Regional opportunities differ by standards, customer qualification, local-content policy and service coverage, making localized engineering and dependable support decisive for sustainable expansion.

Competitive Landscape Analysis

Global representative companies include DISCO, Tokyo Seimitsu, Okamoto Machine Tool Works, Revasum, G&N Genauigkeits Maschinenbau, among others. Established precision-equipment suppliers compete through spindle technology, process recipes, metrology integration and large installed bases. Focused grinding specialists differentiate in difficult materials and application engineering, while emerging Chinese vendors use local service, supply-chain proximity and price-performance to enter domestic fabs and packaging plants. Competition is not determined by nominal specifications alone: qualification history, application engineering, manufacturing consistency, delivery reliability and the ability to support customers after installation are central to supplier selection. Larger groups can spread R&D, certification and service

investment across broader portfolios and regions, whereas focused specialists can respond faster in technically demanding niches. Cost advantage is sustainable only when it is supported by control of critical inputs, stable quality and efficient logistics. Strategic activity is moving toward platform standardization, regional production, digital service and joint development with key accounts; buyers therefore need to assess suppliers at the consolidated group level when brands or subsidiaries have been integrated.

Report Scope

This report is a detailed and comprehensive analysis for global Wafer Surface 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 Wafer Surface Grinding Machine market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Wafer Surface Grinding Machine market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Wafer Surface Grinding Machine market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Wafer Surface Grinding Machine market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

Global Wafer Surface Grinding Machine Market 2026 by Manufacturers, Regions, Type and Application, Forecast to...

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Wafer Surface 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 Wafer Surface 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, Okamoto Machine Tool Works, Revasum, G&N Genauigkeits Maschinenbau, Arnold Gruppe, Koyo Machinery, WAIDA Manufacturing, Hwatsum Precision Machinery, Yuhuan CNC Machine Tool, etc.

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

Wafer Surface Grinding Machine market is split by Type and by Application. For the period 2021-2032, 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 Segmentation

Market segment by Type

Semi-automatic

Full-automatic

Market segment by Wafer Size

Up to 150 mm

200 mm

300 mm

Market segment by Substrate

Silicon

Silicon Carbide

Other Compound Semiconductor

Market segment by Application

IC Wafer Thinning

Power Semiconductor

Advanced Packaging

Substrate Manufacturing

Major players covered

DISCO

Tokyo Seimitsu

Okamoto Machine Tool Works

Revasum

G&N Genauigkeits Maschinenbau

Arnold Gruppe

Koyo Machinery

WAIDA Manufacturing

Hwatsum Precision Machinery

Yuhuan CNC Machine Tool

Qinchuan Machine Tool

GigaMat

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)

Chapter Outline

Chapter 1, to describe Wafer Surface Grinding Machine product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Wafer Surface Grinding Machine, with price, sales quantity, revenue, and global market share of Wafer Surface Grinding Machine from 2021 to 2026.

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

Chapter 4, the Wafer Surface Grinding Machine breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Wafer Surface Grinding Machine market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Wafer Surface Grinding Machine.

Chapter 14 and 15, to describe Wafer Surface 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 Wafer Surface Grinding Machine Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Semi-automatic

1.3.3 Full-automatic

1.4 Market Analysis by Wafer Size

1.4.1 Overview: Global Wafer Surface Grinding Machine Consumption Value by Wafer Size: 2021 Versus 2025 Versus 2032

1.4.2 Up to 150 mm

1.4.3 200 mm

1.4.4 300 mm

1.5 Market Analysis by Substrate

1.5.1 Overview: Global Wafer Surface Grinding Machine Consumption Value by Substrate: 2021 Versus 2025 Versus 2032

1.5.2 Silicon

1.5.3 Silicon Carbide

1.5.4 Other Compound Semiconductor

1.6 Market Analysis by Application

1.6.1 Overview: Global Wafer Surface Grinding Machine Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 IC Wafer Thinning

1.6.3 Power Semiconductor

1.6.4 Advanced Packaging

1.6.5 Substrate Manufacturing

1.7 Global Wafer Surface Grinding Machine Market Size & Forecast

1.7.1 Global Wafer Surface Grinding Machine Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Wafer Surface Grinding Machine Sales Quantity (2021-2032)

1.7.3 Global Wafer Surface Grinding Machine Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 DISCO

- 2.1.1 DISCO Details
- 2.1.2 DISCO Major Business
- 2.1.3 DISCO Wafer Surface Grinding Machine Product and Services
- 2.1.4 DISCO Wafer Surface Grinding Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 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 Wafer Surface Grinding Machine Product and Services
 - 2.2.4 Tokyo Seimitsu Wafer Surface Grinding Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.2.5 Tokyo Seimitsu Recent Developments/Updates
- 2.3 Okamoto Machine Tool Works
 - 2.3.1 Okamoto Machine Tool Works Details
 - 2.3.2 Okamoto Machine Tool Works Major Business
 - 2.3.3 Okamoto Machine Tool Works Wafer Surface Grinding Machine Product and Services
 - 2.3.4 Okamoto Machine Tool Works Wafer Surface Grinding Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.3.5 Okamoto Machine Tool Works Recent Developments/Updates
- 2.4 Revasum
 - 2.4.1 Revasum Details
 - 2.4.2 Revasum Major Business
 - 2.4.3 Revasum Wafer Surface Grinding Machine Product and Services
 - 2.4.4 Revasum Wafer Surface Grinding Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.4.5 Revasum Recent Developments/Updates
- 2.5 G&N Genauigkeits Maschinenbau
 - 2.5.1 G&N Genauigkeits Maschinenbau Details
 - 2.5.2 G&N Genauigkeits Maschinenbau Major Business
 - 2.5.3 G&N Genauigkeits Maschinenbau Wafer Surface Grinding Machine Product and Services
 - 2.5.4 G&N Genauigkeits Maschinenbau Wafer Surface Grinding Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 G&N Genauigkeits Maschinenbau Recent Developments/Updates
- 2.6 Arnold Gruppe
 - 2.6.1 Arnold Gruppe Details
 - 2.6.2 Arnold Gruppe Major Business

- 2.6.3 Arnold Gruppe Wafer Surface Grinding Machine Product and Services
- 2.6.4 Arnold Gruppe Wafer Surface Grinding Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.6.5 Arnold Gruppe Recent Developments/Updates
- 2.7 Koyo Machinery
 - 2.7.1 Koyo Machinery Details
 - 2.7.2 Koyo Machinery Major Business
 - 2.7.3 Koyo Machinery Wafer Surface Grinding Machine Product and Services
 - 2.7.4 Koyo Machinery Wafer Surface Grinding Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 Koyo Machinery Recent Developments/Updates
- 2.8 WAIDA Manufacturing
 - 2.8.1 WAIDA Manufacturing Details
 - 2.8.2 WAIDA Manufacturing Major Business
 - 2.8.3 WAIDA Manufacturing Wafer Surface Grinding Machine Product and Services
 - 2.8.4 WAIDA Manufacturing Wafer Surface Grinding Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 WAIDA Manufacturing Recent Developments/Updates
- 2.9 Hwatsum Precision Machinery
 - 2.9.1 Hwatsum Precision Machinery Details
 - 2.9.2 Hwatsum Precision Machinery Major Business
 - 2.9.3 Hwatsum Precision Machinery Wafer Surface Grinding Machine Product and Services
 - 2.9.4 Hwatsum Precision Machinery Wafer Surface Grinding Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 Hwatsum Precision Machinery Recent Developments/Updates
- 2.10 Yuhuan CNC Machine Tool
 - 2.10.1 Yuhuan CNC Machine Tool Details
 - 2.10.2 Yuhuan CNC Machine Tool Major Business
 - 2.10.3 Yuhuan CNC Machine Tool Wafer Surface Grinding Machine Product and Services
 - 2.10.4 Yuhuan CNC Machine Tool Wafer Surface Grinding Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.10.5 Yuhuan CNC Machine Tool Recent Developments/Updates
- 2.11 Qinchuan Machine Tool
 - 2.11.1 Qinchuan Machine Tool Details
 - 2.11.2 Qinchuan Machine Tool Major Business
 - 2.11.3 Qinchuan Machine Tool Wafer Surface Grinding Machine Product and Services
 - 2.11.4 Qinchuan Machine Tool Wafer Surface Grinding Machine Sales Quantity,

Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 Qinchuan Machine Tool Recent Developments/Updates

2.12 GigaMat

2.12.1 GigaMat Details

2.12.2 GigaMat Major Business

2.12.3 GigaMat Wafer Surface Grinding Machine Product and Services

2.12.4 GigaMat Wafer Surface Grinding Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 GigaMat Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: WAFER SURFACE GRINDING MACHINE BY MANUFACTURER

3.1 Global Wafer Surface Grinding Machine Sales Quantity by Manufacturer (2021-2026)

3.2 Global Wafer Surface Grinding Machine Revenue by Manufacturer (2021-2026)

3.3 Global Wafer Surface Grinding Machine Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Wafer Surface Grinding Machine by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Wafer Surface Grinding Machine Manufacturer Market Share in 2025

3.4.3 Top 6 Wafer Surface Grinding Machine Manufacturer Market Share in 2025

3.5 Wafer Surface Grinding Machine Market: Overall Company Footprint Analysis

3.5.1 Wafer Surface Grinding Machine Market: Region Footprint

3.5.2 Wafer Surface Grinding Machine Market: Company Product Type Footprint

3.5.3 Wafer Surface 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 Wafer Surface Grinding Machine Market Size by Region

4.1.1 Global Wafer Surface Grinding Machine Sales Quantity by Region (2021-2032)

4.1.2 Global Wafer Surface Grinding Machine Consumption Value by Region (2021-2032)

4.1.3 Global Wafer Surface Grinding Machine Average Price by Region (2021-2032)

4.2 North America Wafer Surface Grinding Machine Consumption Value (2021-2032)

4.3 Europe Wafer Surface Grinding Machine Consumption Value (2021-2032)

- 4.4 Asia-Pacific Wafer Surface Grinding Machine Consumption Value (2021-2032)
- 4.5 South America Wafer Surface Grinding Machine Consumption Value (2021-2032)
- 4.6 Middle East & Africa Wafer Surface Grinding Machine Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Wafer Surface Grinding Machine Sales Quantity by Type (2021-2032)
- 5.2 Global Wafer Surface Grinding Machine Consumption Value by Type (2021-2032)
- 5.3 Global Wafer Surface Grinding Machine Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Wafer Surface Grinding Machine Sales Quantity by Application (2021-2032)
- 6.2 Global Wafer Surface Grinding Machine Consumption Value by Application (2021-2032)
- 6.3 Global Wafer Surface Grinding Machine Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America Wafer Surface Grinding Machine Sales Quantity by Type (2021-2032)
- 7.2 North America Wafer Surface Grinding Machine Sales Quantity by Application (2021-2032)
- 7.3 North America Wafer Surface Grinding Machine Market Size by Country
 - 7.3.1 North America Wafer Surface Grinding Machine Sales Quantity by Country (2021-2032)
 - 7.3.2 North America Wafer Surface Grinding Machine Consumption Value by Country (2021-2032)
 - 7.3.3 United States Market Size and Forecast (2021-2032)
 - 7.3.4 Canada Market Size and Forecast (2021-2032)
 - 7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

- 8.1 Europe Wafer Surface Grinding Machine Sales Quantity by Type (2021-2032)
- 8.2 Europe Wafer Surface Grinding Machine Sales Quantity by Application (2021-2032)
- 8.3 Europe Wafer Surface Grinding Machine Market Size by Country
 - 8.3.1 Europe Wafer Surface Grinding Machine Sales Quantity by Country (2021-2032)

8.3.2 Europe Wafer Surface Grinding Machine Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Wafer Surface Grinding Machine Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Wafer Surface Grinding Machine Sales Quantity by Application (2021-2032)

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

9.3.1 Asia-Pacific Wafer Surface Grinding Machine Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Wafer Surface Grinding Machine Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Wafer Surface Grinding Machine Sales Quantity by Type (2021-2032)

10.2 South America Wafer Surface Grinding Machine Sales Quantity by Application (2021-2032)

10.3 South America Wafer Surface Grinding Machine Market Size by Country

10.3.1 South America Wafer Surface Grinding Machine Sales Quantity by Country (2021-2032)

10.3.2 South America Wafer Surface Grinding Machine Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Wafer Surface Grinding Machine Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Wafer Surface Grinding Machine Sales Quantity by Application (2021-2032)

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

11.3.1 Middle East & Africa Wafer Surface Grinding Machine Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Wafer Surface Grinding Machine Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Wafer Surface Grinding Machine Market Drivers

12.2 Wafer Surface Grinding Machine Market Restraints

12.3 Wafer Surface 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 Wafer Surface Grinding Machine and Key Manufacturers

13.2 Manufacturing Costs Percentage of Wafer Surface Grinding Machine

13.3 Wafer Surface 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 Wafer Surface Grinding Machine Typical Distributors

14.3 Wafer Surface 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 Wafer Surface Grinding Machine Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Wafer Surface Grinding Machine Consumption Value by Wafer Size, (USD Million), 2021 & 2025 & 2032

Table 3. Global Wafer Surface Grinding Machine Consumption Value by Substrate, (USD Million), 2021 & 2025 & 2032

Table 4. Global Wafer Surface Grinding Machine Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. DISCO Basic Information, Manufacturing Base and Competitors

Table 6. DISCO Major Business

Table 7. DISCO Wafer Surface Grinding Machine Product and Services

Table 8. DISCO Wafer Surface Grinding Machine Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. DISCO Recent Developments/Updates

Table 10. Tokyo Seimitsu Basic Information, Manufacturing Base and Competitors

Table 11. Tokyo Seimitsu Major Business

Table 12. Tokyo Seimitsu Wafer Surface Grinding Machine Product and Services

Table 13. Tokyo Seimitsu Wafer Surface Grinding Machine Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Tokyo Seimitsu Recent Developments/Updates

Table 15. Okamoto Machine Tool Works Basic Information, Manufacturing Base and Competitors

Table 16. Okamoto Machine Tool Works Major Business

Table 17. Okamoto Machine Tool Works Wafer Surface Grinding Machine Product and Services

Table 18. Okamoto Machine Tool Works Wafer Surface Grinding Machine Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Okamoto Machine Tool Works Recent Developments/Updates

Table 20. Revasum Basic Information, Manufacturing Base and Competitors

Table 21. Revasum Major Business

Table 22. Revasum Wafer Surface Grinding Machine Product and Services

Table 23. Revasum Wafer Surface Grinding Machine Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Revasum Recent Developments/Updates

Table 25. G&N Genauigkeits Maschinenbau Basic Information, Manufacturing Base and Competitors

Table 26. G&N Genauigkeits Maschinenbau Major Business

Table 27. G&N Genauigkeits Maschinenbau Wafer Surface Grinding Machine Product and Services

Table 28. G&N Genauigkeits Maschinenbau Wafer Surface Grinding Machine Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. G&N Genauigkeits Maschinenbau Recent Developments/Updates

Table 30. Arnold Gruppe Basic Information, Manufacturing Base and Competitors

Table 31. Arnold Gruppe Major Business

Table 32. Arnold Gruppe Wafer Surface Grinding Machine Product and Services

Table 33. Arnold Gruppe Wafer Surface Grinding Machine Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Arnold Gruppe Recent Developments/Updates

Table 35. Koyo Machinery Basic Information, Manufacturing Base and Competitors

Table 36. Koyo Machinery Major Business

Table 37. Koyo Machinery Wafer Surface Grinding Machine Product and Services

Table 38. Koyo Machinery Wafer Surface Grinding Machine Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Koyo Machinery Recent Developments/Updates

Table 40. WAIDA Manufacturing Basic Information, Manufacturing Base and Competitors

Table 41. WAIDA Manufacturing Major Business

Table 42. WAIDA Manufacturing Wafer Surface Grinding Machine Product and Services

Table 43. WAIDA Manufacturing Wafer Surface Grinding Machine Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. WAIDA Manufacturing Recent Developments/Updates

Table 45. Hwatsum Precision Machinery Basic Information, Manufacturing Base and Competitors

Table 46. Hwatsum Precision Machinery Major Business

Table 47. Hwatsum Precision Machinery Wafer Surface Grinding Machine Product and Services

Table 48. Hwatsum Precision Machinery Wafer Surface Grinding Machine Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and

Market Share (2021-2026)

Table 49. Hwatsum Precision Machinery Recent Developments/Updates

Table 50. Yuhuan CNC Machine Tool Basic Information, Manufacturing Base and Competitors

Table 51. Yuhuan CNC Machine Tool Major Business

Table 52. Yuhuan CNC Machine Tool Wafer Surface Grinding Machine Product and Services

Table 53. Yuhuan CNC Machine Tool Wafer Surface Grinding Machine Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. Yuhuan CNC Machine Tool Recent Developments/Updates

Table 55. Qinchuan Machine Tool Basic Information, Manufacturing Base and Competitors

Table 56. Qinchuan Machine Tool Major Business

Table 57. Qinchuan Machine Tool Wafer Surface Grinding Machine Product and Services

Table 58. Qinchuan Machine Tool Wafer Surface Grinding Machine Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. Qinchuan Machine Tool Recent Developments/Updates

Table 60. GigaMat Basic Information, Manufacturing Base and Competitors

Table 61. GigaMat Major Business

Table 62. GigaMat Wafer Surface Grinding Machine Product and Services

Table 63. GigaMat Wafer Surface Grinding Machine Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. GigaMat Recent Developments/Updates

Table 65. Global Wafer Surface Grinding Machine Sales Quantity by Manufacturer (2021-2026) & (Units)

Table 66. Global Wafer Surface Grinding Machine Revenue by Manufacturer (2021-2026) & (USD Million)

Table 67. Global Wafer Surface Grinding Machine Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 68. Market Position of Manufacturers in Wafer Surface Grinding Machine, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 69. Head Office and Wafer Surface Grinding Machine Production Site of Key Manufacturer

Table 70. Wafer Surface Grinding Machine Market: Company Product Type Footprint

Table 71. Wafer Surface Grinding Machine Market: Company Product Application Footprint

Table 72. Wafer Surface Grinding Machine New Market Entrants and Barriers to Market Entry

Table 73. Wafer Surface Grinding Machine Mergers, Acquisition, Agreements, and Collaborations

Table 74. Global Wafer Surface Grinding Machine Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 75. Global Wafer Surface Grinding Machine Sales Quantity by Region (2021-2026) & (Units)

Table 76. Global Wafer Surface Grinding Machine Sales Quantity by Region (2027-2032) & (Units)

Table 77. Global Wafer Surface Grinding Machine Consumption Value by Region (2021-2026) & (USD Million)

Table 78. Global Wafer Surface Grinding Machine Consumption Value by Region (2027-2032) & (USD Million)

Table 79. Global Wafer Surface Grinding Machine Average Price by Region (2021-2026) & (US\$/Unit)

Table 80. Global Wafer Surface Grinding Machine Average Price by Region (2027-2032) & (US\$/Unit)

Table 81. Global Wafer Surface Grinding Machine Sales Quantity by Type (2021-2026) & (Units)

Table 82. Global Wafer Surface Grinding Machine Sales Quantity by Type (2027-2032) & (Units)

Table 83. Global Wafer Surface Grinding Machine Consumption Value by Type (2021-2026) & (USD Million)

Table 84. Global Wafer Surface Grinding Machine Consumption Value by Type (2027-2032) & (USD Million)

Table 85. Global Wafer Surface Grinding Machine Average Price by Type (2021-2026) & (US\$/Unit)

Table 86. Global Wafer Surface Grinding Machine Average Price by Type (2027-2032) & (US\$/Unit)

Table 87. Global Wafer Surface Grinding Machine Sales Quantity by Application (2021-2026) & (Units)

Table 88. Global Wafer Surface Grinding Machine Sales Quantity by Application (2027-2032) & (Units)

Table 89. Global Wafer Surface Grinding Machine Consumption Value by Application (2021-2026) & (USD Million)

Table 90. Global Wafer Surface Grinding Machine Consumption Value by Application (2027-2032) & (USD Million)

Table 91. Global Wafer Surface Grinding Machine Average Price by Application

(2021-2026) & (US\$/Unit)

Table 92. Global Wafer Surface Grinding Machine Average Price by Application

(2027-2032) & (US\$/Unit)

Table 93. North America Wafer Surface Grinding Machine Sales Quantity by Type

(2021-2026) & (Units)

Table 94. North America Wafer Surface Grinding Machine Sales Quantity by Type

(2027-2032) & (Units)

Table 95. North America Wafer Surface Grinding Machine Sales Quantity by Application

(2021-2026) & (Units)

Table 96. North America Wafer Surface Grinding Machine Sales Quantity by Application

(2027-2032) & (Units)

Table 97. North America Wafer Surface Grinding Machine Sales Quantity by Country

(2021-2026) & (Units)

Table 98. North America Wafer Surface Grinding Machine Sales Quantity by Country

(2027-2032) & (Units)

Table 99. North America Wafer Surface Grinding Machine Consumption Value by Country (2021-2026) & (USD Million)

Table 100. North America Wafer Surface Grinding Machine Consumption Value by Country (2027-2032) & (USD Million)

Table 101. Europe Wafer Surface Grinding Machine Sales Quantity by Type (2021-2026) & (Units)

Table 102. Europe Wafer Surface Grinding Machine Sales Quantity by Type (2027-2032) & (Units)

Table 103. Europe Wafer Surface Grinding Machine Sales Quantity by Application (2021-2026) & (Units)

Table 104. Europe Wafer Surface Grinding Machine Sales Quantity by Application (2027-2032) & (Units)

Table 105. Europe Wafer Surface Grinding Machine Sales Quantity by Country (2021-2026) & (Units)

Table 106. Europe Wafer Surface Grinding Machine Sales Quantity by Country (2027-2032) & (Units)

Table 107. Europe Wafer Surface Grinding Machine Consumption Value by Country (2021-2026) & (USD Million)

Table 108. Europe Wafer Surface Grinding Machine Consumption Value by Country (2027-2032) & (USD Million)

Table 109. Asia-Pacific Wafer Surface Grinding Machine Sales Quantity by Type (2021-2026) & (Units)

Table 110. Asia-Pacific Wafer Surface Grinding Machine Sales Quantity by Type (2027-2032) & (Units)

Table 111. Asia-Pacific Wafer Surface Grinding Machine Sales Quantity by Application (2021-2026) & (Units)

Table 112. Asia-Pacific Wafer Surface Grinding Machine Sales Quantity by Application (2027-2032) & (Units)

Table 113. Asia-Pacific Wafer Surface Grinding Machine Sales Quantity by Region (2021-2026) & (Units)

Table 114. Asia-Pacific Wafer Surface Grinding Machine Sales Quantity by Region (2027-2032) & (Units)

Table 115. Asia-Pacific Wafer Surface Grinding Machine Consumption Value by Region (2021-2026) & (USD Million)

Table 116. Asia-Pacific Wafer Surface Grinding Machine Consumption Value by Region (2027-2032) & (USD Million)

Table 117. South America Wafer Surface Grinding Machine Sales Quantity by Type (2021-2026) & (Units)

Table 118. South America Wafer Surface Grinding Machine Sales Quantity by Type (2027-2032) & (Units)

Table 119. South America Wafer Surface Grinding Machine Sales Quantity by Application (2021-2026) & (Units)

Table 120. South America Wafer Surface Grinding Machine Sales Quantity by Application (2027-2032) & (Units)

Table 121. South America Wafer Surface Grinding Machine Sales Quantity by Country (2021-2026) & (Units)

Table 122. South America Wafer Surface Grinding Machine Sales Quantity by Country (2027-2032) & (Units)

Table 123. South America Wafer Surface Grinding Machine Consumption Value by Country (2021-2026) & (USD Million)

Table 124. South America Wafer Surface Grinding Machine Consumption Value by Country (2027-2032) & (USD Million)

Table 125. Middle East & Africa Wafer Surface Grinding Machine Sales Quantity by Type (2021-2026) & (Units)

Table 126. Middle East & Africa Wafer Surface Grinding Machine Sales Quantity by Type (2027-2032) & (Units)

Table 127. Middle East & Africa Wafer Surface Grinding Machine Sales Quantity by Application (2021-2026) & (Units)

Table 128. Middle East & Africa Wafer Surface Grinding Machine Sales Quantity by Application (2027-2032) & (Units)

Table 129. Middle East & Africa Wafer Surface Grinding Machine Sales Quantity by Country (2021-2026) & (Units)

Table 130. Middle East & Africa Wafer Surface Grinding Machine Sales Quantity by

Country (2027-2032) & (Units)

Table 131. Middle East & Africa Wafer Surface Grinding Machine Consumption Value by Country (2021-2026) & (USD Million)

Table 132. Middle East & Africa Wafer Surface Grinding Machine Consumption Value by Country (2027-2032) & (USD Million)

Table 133. Wafer Surface Grinding Machine Raw Material

Table 134. Key Manufacturers of Wafer Surface Grinding Machine Raw Materials

Table 135. Wafer Surface Grinding Machine Typical Distributors

Table 136. Wafer Surface Grinding Machine Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Wafer Surface Grinding Machine Picture

Figure 2. Global Wafer Surface Grinding Machine Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Wafer Surface Grinding Machine Revenue Market Share by Type in 2025

Figure 4. Semi-automatic Examples

Figure 5. Full-automatic Examples

Figure 6. Global Wafer Surface Grinding Machine Revenue by Wafer Size, (USD Million), 2021 & 2025 & 2032

Figure 7. Global Wafer Surface Grinding Machine Revenue Market Share by Wafer Size in 2025

Figure 8. Up to 150 mm Examples

Figure 9. 200 mm Examples

Figure 10. 300 mm Examples

Figure 11. Global Wafer Surface Grinding Machine Revenue by Substrate, (USD Million), 2021 & 2025 & 2032

Figure 12. Global Wafer Surface Grinding Machine Revenue Market Share by Substrate in 2025

Figure 13. Silicon Examples

Figure 14. Silicon Carbide Examples

Figure 15. Other Compound Semiconductor Examples

Figure 16. Global Wafer Surface Grinding Machine Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 17. Global Wafer Surface Grinding Machine Revenue Market Share by Application in 2025

Figure 18. IC Wafer Thinning Examples

Figure 19. Power Semiconductor Examples

Figure 20. Advanced Packaging Examples

Figure 21. Substrate Manufacturing Examples

Figure 22. Global Wafer Surface Grinding Machine Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 23. Global Wafer Surface Grinding Machine Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 24. Global Wafer Surface Grinding Machine Sales Quantity (2021-2032) & (Units)

Figure 25. Global Wafer Surface Grinding Machine Price (2021-2032) & (US\$/Unit)

Figure 26. Global Wafer Surface Grinding Machine Sales Quantity Market Share by Manufacturer in 2025

Figure 27. Global Wafer Surface Grinding Machine Revenue Market Share by Manufacturer in 2025

Figure 28. Producer Shipments of Wafer Surface Grinding Machine by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 29. Top 3 Wafer Surface Grinding Machine Manufacturer (Revenue) Market Share in 2025

Figure 30. Top 6 Wafer Surface Grinding Machine Manufacturer (Revenue) Market Share in 2025

Figure 31. Global Wafer Surface Grinding Machine Sales Quantity Market Share by Region (2021-2032)

Figure 32. Global Wafer Surface Grinding Machine Consumption Value Market Share by Region (2021-2032)

Figure 33. North America Wafer Surface Grinding Machine Consumption Value (2021-2032) & (USD Million)

Figure 34. Europe Wafer Surface Grinding Machine Consumption Value (2021-2032) & (USD Million)

Figure 35. Asia-Pacific Wafer Surface Grinding Machine Consumption Value (2021-2032) & (USD Million)

Figure 36. South America Wafer Surface Grinding Machine Consumption Value (2021-2032) & (USD Million)

Figure 37. Middle East & Africa Wafer Surface Grinding Machine Consumption Value (2021-2032) & (USD Million)

Figure 38. Global Wafer Surface Grinding Machine Sales Quantity Market Share by Type (2021-2032)

Figure 39. Global Wafer Surface Grinding Machine Consumption Value Market Share by Type (2021-2032)

Figure 40. Global Wafer Surface Grinding Machine Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. Global Wafer Surface Grinding Machine Sales Quantity Market Share by Application (2021-2032)

Figure 42. Global Wafer Surface Grinding Machine Revenue Market Share by Application (2021-2032)

Figure 43. Global Wafer Surface Grinding Machine Average Price by Application (2021-2032) & (US\$/Unit)

Figure 44. North America Wafer Surface Grinding Machine Sales Quantity Market Share by Type (2021-2032)

Figure 45. North America Wafer Surface Grinding Machine Sales Quantity Market Share by Application (2021-2032)

Figure 46. North America Wafer Surface Grinding Machine Sales Quantity Market Share by Country (2021-2032)

Figure 47. North America Wafer Surface Grinding Machine Consumption Value Market Share by Country (2021-2032)

Figure 48. United States Wafer Surface Grinding Machine Consumption Value (2021-2032) & (USD Million)

Figure 49. Canada Wafer Surface Grinding Machine Consumption Value (2021-2032) & (USD Million)

Figure 50. Mexico Wafer Surface Grinding Machine Consumption Value (2021-2032) & (USD Million)

Figure 51. Europe Wafer Surface Grinding Machine Sales Quantity Market Share by Type (2021-2032)

Figure 52. Europe Wafer Surface Grinding Machine Sales Quantity Market Share by Application (2021-2032)

Figure 53. Europe Wafer Surface Grinding Machine Sales Quantity Market Share by Country (2021-2032)

Figure 54. Europe Wafer Surface Grinding Machine Consumption Value Market Share by Country (2021-2032)

Figure 55. Germany Wafer Surface Grinding Machine Consumption Value (2021-2032) & (USD Million)

Figure 56. France Wafer Surface Grinding Machine Consumption Value (2021-2032) & (USD Million)

Figure 57. United Kingdom Wafer Surface Grinding Machine Consumption Value (2021-2032) & (USD Million)

Figure 58. Russia Wafer Surface Grinding Machine Consumption Value (2021-2032) & (USD Million)

Figure 59. Italy Wafer Surface Grinding Machine Consumption Value (2021-2032) & (USD Million)

Figure 60. Asia-Pacific Wafer Surface Grinding Machine Sales Quantity Market Share by Type (2021-2032)

Figure 61. Asia-Pacific Wafer Surface Grinding Machine Sales Quantity Market Share by Application (2021-2032)

Figure 62. Asia-Pacific Wafer Surface Grinding Machine Sales Quantity Market Share by Region (2021-2032)

Figure 63. Asia-Pacific Wafer Surface Grinding Machine Consumption Value Market Share by Region (2021-2032)

Figure 64. China Wafer Surface Grinding Machine Consumption Value (2021-2032) &

(USD Million)

Figure 65. Japan Wafer Surface Grinding Machine Consumption Value (2021-2032) & (USD Million)

Figure 66. South Korea Wafer Surface Grinding Machine Consumption Value (2021-2032) & (USD Million)

Figure 67. India Wafer Surface Grinding Machine Consumption Value (2021-2032) & (USD Million)

Figure 68. Southeast Asia Wafer Surface Grinding Machine Consumption Value (2021-2032) & (USD Million)

Figure 69. Australia Wafer Surface Grinding Machine Consumption Value (2021-2032) & (USD Million)

Figure 70. South America Wafer Surface Grinding Machine Sales Quantity Market Share by Type (2021-2032)

Figure 71. South America Wafer Surface Grinding Machine Sales Quantity Market Share by Application (2021-2032)

Figure 72. South America Wafer Surface Grinding Machine Sales Quantity Market Share by Country (2021-2032)

Figure 73. South America Wafer Surface Grinding Machine Consumption Value Market Share by Country (2021-2032)

Figure 74. Brazil Wafer Surface Grinding Machine Consumption Value (2021-2032) & (USD Million)

Figure 75. Argentina Wafer Surface Grinding Machine Consumption Value (2021-2032) & (USD Million)

Figure 76. Middle East & Africa Wafer Surface Grinding Machine Sales Quantity Market Share by Type (2021-2032)

Figure 77. Middle East & Africa Wafer Surface Grinding Machine Sales Quantity Market Share by Application (2021-2032)

Figure 78. Middle East & Africa Wafer Surface Grinding Machine Sales Quantity Market Share by Country (2021-2032)

Figure 79. Middle East & Africa Wafer Surface Grinding Machine Consumption Value Market Share by Country (2021-2032)

Figure 80. Turkey Wafer Surface Grinding Machine Consumption Value (2021-2032) & (USD Million)

Figure 81. Egypt Wafer Surface Grinding Machine Consumption Value (2021-2032) & (USD Million)

Figure 82. Saudi Arabia Wafer Surface Grinding Machine Consumption Value (2021-2032) & (USD Million)

Figure 83. South Africa Wafer Surface Grinding Machine Consumption Value (2021-2032) & (USD Million)

Figure 84. Wafer Surface Grinding Machine Market Drivers

Figure 85. Wafer Surface Grinding Machine Market Restraints

Figure 86. Wafer Surface Grinding Machine Market Trends

Figure 87. Porters Five Forces Analysis

Figure 88. Manufacturing Cost Structure Analysis of Wafer Surface Grinding Machine in 2025

Figure 89. Manufacturing Process Analysis of Wafer Surface Grinding Machine

Figure 90. Wafer Surface Grinding Machine Industrial Chain

Figure 91. Sales Channel: Direct to End-User vs Distributors

Figure 92. Direct Channel Pros & Cons

Figure 93. Indirect Channel Pros & Cons

Figure 94. Methodology

Figure 95. Research Process and Data Source

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