

Asia Pacific Coordinate Grinding Machine Market Size and Forecast (2021 - 2031), Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Industry (Medical, Mold and Die Industry, Aerospace and Defense, Automotive, Electric and Electronics, Industrial Machinery, and Other Industries) and Machine Technology (CNC or NC Machine and Conventional Machines)

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Abstracts

The Asia Pacific Coordinate Grinding Machine Market is projected to grow significantly, reaching an estimated US\$ 289.0 million by 2031, up from US\$ 202.2 million in 2024, with a compound annual growth rate (CAGR) of 5.4% anticipated from 2025 to 2031. This growth is driven by the region's rapid industrialization and the increasing adoption of advanced manufacturing technologies.

Countries such as Australia, China, India, Japan, South Korea, Malaysia, Taiwan, and Thailand are experiencing a notable shift towards precision engineering in their manufacturing sectors. The combination of low labor costs, favorable tax policies, and a strong manufacturing infrastructure is attracting global companies to set up and expand their production facilities in these regions. This trend is further fueled by the rising demand for high-strength and lightweight components, which necessitates the use of coordinate grinding technology for ultra-precise surface finishing and dimensional accuracy.

The Asia Pacific region plays a crucial role in global aerospace manufacturing, with companies like Hindustan Aeronautics Limited in India and Singapore Technologies

Engineering relying on high-precision coordinate grinding equipment to produce complex components such as turbine blades, landing gears, and fuselage structures. Additionally, countries like China, Malaysia, and Vietnam utilize coordinate grinding technology to manufacture durable steel structures, heavy machinery, and construction equipment, ensuring tight tolerances and high quality.

The shift towards renewable energy sources has also increased the demand for coordinate grinding solutions. For example, wind turbine manufacturers like Goldwind in China and Suzlon in India use these machines to enhance the surfaces of turbine shafts and bearings, which improves their efficiency and longevity. Furthermore, the automotive industry's transition to electrification is creating new opportunities for coordinate grinding technology, as electric vehicle (EV) manufacturers require precise, lightweight, and durable components, such as motor parts and transmission systems, where achieving micron-level tolerances is essential.

Beyond traditional industrial applications, the coordinate grinding machine market is also benefiting from sector-specific applications. In India, the medical technology sector is expanding, with companies like Meril Life Sciences employing precision grinding to ensure the quality and regulatory compliance of implants and surgical instruments intended for export. Similarly, in Singapore, the oil and gas industry utilizes coordinate grinding techniques to improve the reliability of offshore equipment, including pipelines and drilling systems, which must perform under extreme conditions.

The market segmentation of the Asia Pacific Coordinate Grinding Machine Market reveals that by industry, the market is divided into Medical, Mold and Die, Aerospace and Defense, Automotive, Electric and Electronics, Industrial Machinery, and Others, with the Automotive sector holding the largest share in 2024. In terms of machine technology, the market is categorized into CNC or NC Machines and Conventional Machines, with CNC or NC Machines also leading in market share.

The aerospace industry's focus on fuel efficiency and performance has led to a significant shift towards lightweight materials and advanced manufacturing technologies, increasing the reliance on coordinate grinding machines for crafting critical aircraft components. These machines are essential for applications requiring tight tolerances and intricate geometries, such as grinding precision holes and contours in turbine blades and engine housings. Recent developments in the aerospace sector, including Airbus's plans to ramp up A320 production in China and BAE Systems securing contracts for armored vehicles, underscore the importance of coordinate grinding machines in high-performance manufacturing.

Technological advancements in grinding, including automation, AI-driven predictive maintenance, and hybrid systems that integrate additive manufacturing with grinding, are enhancing the value of coordinate grinding machines in aerospace. These innovations improve productivity, extend tool and component lifespans, and help manufacturers comply with stringent industry standards, solidifying the role of coordinate grinding in modern aerospace production.

Country-wise, the Asia Pacific Coordinate Grinding Machine Market is segmented into Australia, China, India, Japan, South Korea, Malaysia, Taiwan, Thailand, and the Rest of APAC, with the Rest of APAC holding the largest market share in 2024. Countries like New Zealand, Indonesia, Vietnam, Singapore, and the Philippines are significant contributors to the market, driven by rapid urbanization and industrialization. The automotive sector in Indonesia, for instance, is seeing substantial investments, such as Mitsubishi Motors Corporation's US\$666.89 million investment to expand hybrid and electric vehicle production, which is expected to boost demand for precision machinery, including coordinate grinding machines.

Vietnam is emerging as a competitive production hub, with its growing aerospace and automotive sectors increasingly adopting coordinate grinding machinery to ensure the accuracy and durability of high-performance components. The reliance on advanced machining technologies is exemplified by VinFast, Vietnam's leading EV manufacturer, which utilizes precision grinding processes to enhance the strength and reliability of key vehicle parts.

Contents

1. INTRODUCTION

- 1.1 Report Guidance
- 1.2 Market Segmentation

2. EXECUTIVE SUMMARY

- 2.1 Key Insights
- 2.2 Market Attractiveness

3. RESEARCH METHODOLOGY

- 3.1 Secondary Research
- 3.2 Primary Research
 - 3.2.1 Hypothesis formulation:
 - 3.2.2 Macroeconomic factor analysis:
 - 3.2.3 Developing base number:
 - 3.2.4 Data Triangulation:
 - 3.2.5 Country-level data:

4. COORDINATE GRINDING MACHINE MARKET LANDSCAPE

- 4.1 Market Overview
- 4.2 Ecosystem Analysis
 - 4.2.1 Raw Material and Component Suppliers
 - 4.2.2 Machine Manufacturers
 - 4.2.3 End Users
 - 4.2.4 List of Vendors in the Value Chain

5. ASIA PACIFIC COORDINATE GRINDING MACHINE MARKET - KEY MARKET DYNAMICS

- 5.1 Market Drivers
- 5.2 Market Restraints
- 5.3 Market Opportunities
- 5.4 Future Trends
- 5.5 Impact of Drivers and Restraints:

6. COORDINATE GRINDING MACHINE MARKET - ASIA PACIFIC MARKET ANALYSIS

6.1 Asia Pacific Coordinate Grinding Machine Market Revenue (US\$ Million), 2024 - 2031

6.2 Asia Pacific Coordinate Grinding Machine Market Forecast and Analysis

7. ASIA PACIFIC COORDINATE GRINDING MACHINE MARKET REVENUE ANALYSIS - BY INDUSTRY

7.1 Medical

7.1.1 Overview

7.1.2 Medical: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

7.2 Mold and Die Industry

7.2.1 Overview

7.2.2 Mold and Die Industry: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

7.3 Aerospace and Defense

7.3.1 Overview

7.3.2 Aerospace and Defense: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

7.4 Automotive

7.4.1 Overview

7.4.2 Automotive: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

7.5 Electric and Electronics

7.5.1 Overview

7.5.2 Electric and Electronics: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

7.6 Industrial Machinery

7.6.1 Overview

7.6.2 Industrial Machinery: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

7.7 Others

7.7.1 Overview

7.7.2 Others: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

8. ASIA PACIFIC COORDINATE GRINDING MACHINE MARKET REVENUE ANALYSIS - BY MACHINE TECHNOLOGY

8.1 CNC or NC Machine

8.1.1 Overview

8.1.2 CNC or NC Machine: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

8.2 Conventional Machines

8.2.1 Overview

8.2.2 Conventional Machines: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

9. ASIA PACIFIC COORDINATE GRINDING MACHINE MARKET - COUNTRY ANALYSIS

9.1 Asia Pacific

9.1.1 Asia Pacific Coordinate Grinding Machine Market Revenue and Forecast and Analysis - by Country

9.1.1.1 Asia Pacific Coordinate Grinding Machine Market Revenue and Forecast and Analysis - by Country

9.1.2.2 Australia: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

9.1.2.2.1 Australia: Asia Pacific Coordinate Grinding Machine Market Share - by Industry

9.1.2.2.2 Australia: Asia Pacific Coordinate Grinding Machine Market Share - by Machine Technology

9.2.3.3 China: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

9.2.3.3.1 China: Asia Pacific Coordinate Grinding Machine Market Share - by Industry

9.2.3.3.2 China: Asia Pacific Coordinate Grinding Machine Market Share - by Machine Technology

9.3.4.4 India: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

9.3.4.4.1 India: Asia Pacific Coordinate Grinding Machine Market Share - by Industry

9.3.4.4.2 India: Asia Pacific Coordinate Grinding Machine Market Share - by Machine Technology

9.4.5.5 Japan: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

9.4.5.5.1 Japan: Asia Pacific Coordinate Grinding Machine Market Share - by Industry

9.4.5.5.2 Japan: Asia Pacific Coordinate Grinding Machine Market Share - by Machine Technology

9.5.6.6 South Korea: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

9.5.6.6.1 South Korea: Asia Pacific Coordinate Grinding Machine Market Share - by Industry

9.5.6.6.2 South Korea: Asia Pacific Coordinate Grinding Machine Market Share - by Machine Technology

9.6.7.7 Malaysia: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

9.6.7.7.1 Malaysia: Asia Pacific Coordinate Grinding Machine Market Share - by Industry

9.6.7.7.2 Malaysia: Asia Pacific Coordinate Grinding Machine Market Share - by Machine Technology

9.7.8.8 Taiwan: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

9.7.8.8.1 Taiwan: Asia Pacific Coordinate Grinding Machine Market Share - by Industry

9.7.8.8.2 Taiwan: Asia Pacific Coordinate Grinding Machine Market Share - by Machine Technology

9.8.9.9 Thailand: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

9.8.9.9.1 Thailand: Asia Pacific Coordinate Grinding Machine Market Share - by Industry

9.8.9.9.2 Thailand: Asia Pacific Coordinate Grinding Machine Market Share - by Machine Technology

9.9.10.10 Rest of APAC: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

9.9.10.10.1 Rest of APAC: Asia Pacific Coordinate Grinding Machine Market Share - by Industry

9.9.10.10.2 Rest of APAC: Asia Pacific Coordinate Grinding Machine Market Share - by Machine Technology

10 COMPETITIVE LANDSCAPE

- 10.1 Heat Map Analysis by Key Players
- 10.2 Company Positioning & Concentration

11 INDUSTRY LANDSCAPE

- 11.1 Overview
- 11.2 New Product Development
- 11.3 Merger and Acquisition
- 11.4 Other Strategic Developments

12 COMPANY PROFILES

- 12.1 DANOBATGROUP
 - 12.1.1 Key Facts
 - 12.1.2 Business Description
 - 12.1.3 Products and Services
 - 12.1.4 Financial Overview
 - 12.1.5 SWOT Analysis
 - 12.1.6 Key Developments
- 12.2 Kellenberger Switzerland AG
 - 12.2.1 Key Facts
 - 12.2.2 Business Description
 - 12.2.3 Products and Services
 - 12.2.4 Financial Overview
 - 12.2.5 SWOT Analysis
 - 12.2.6 Key Developments
- 12.3 HMT Machine Tools Limited
 - 12.3.1 Key Facts
 - 12.3.2 Business Description
 - 12.3.3 Products and Services
 - 12.3.4 Financial Overview
 - 12.3.5 SWOT Analysis
 - 12.3.6 Key Developments
- 12.4 Fehlmann AG
 - 12.4.1 Key Facts
 - 12.4.2 Business Description
 - 12.4.3 Products and Services
 - 12.4.4 Financial Overview
 - 12.4.5 SWOT Analysis

- 12.4.6 Key Developments
- 12.5 PALMARY Machinery Co., Ltd.
 - 12.5.1 Key Facts
 - 12.5.2 Business Description
 - 12.5.3 Products and Services
 - 12.5.4 Financial Overview
 - 12.5.5 SWOT Analysis
 - 12.5.6 Key Developments
- 12.6 Okamoto (Singapore) Pte Ltd
 - 12.6.1 Key Facts
 - 12.6.2 Business Description
 - 12.6.3 Products and Services
 - 12.6.4 Financial Overview
 - 12.6.5 SWOT Analysis
 - 12.6.6 Key Developments
- 12.7 United Grinding Group
 - 12.7.1 Key Facts
 - 12.7.2 Business Description
 - 12.7.3 Products and Services
 - 12.7.4 Financial Overview
 - 12.7.5 SWOT Analysis
 - 12.7.6 Key Developments
- 12.8 Moore Tool Company, Inc.
 - 12.8.1 Key Facts
 - 12.8.2 Business Description
 - 12.8.3 Products and Services
 - 12.8.4 Financial Overview
 - 12.8.5 SWOT Analysis
 - 12.8.6 Key Developments
- 12.9 DMG MORI Co., Ltd.
 - 12.9.1 Key Facts
 - 12.9.2 Business Description
 - 12.9.3 Products and Services
 - 12.9.4 Financial Overview
 - 12.9.5 SWOT Analysis
 - 12.9.6 Key Developments
- 12.10 KEHREN GmbH
 - 12.10.1 Key Facts
 - 12.10.2 Business Description

- 12.10.3 Products and Services
- 12.10.4 Financial Overview
- 12.10.5 SWOT Analysis
- 12.10.6 Key Developments

13. APPENDIX

- 13.1 About The Insight Partners

List Of Tables

LIST OF TABLES

Table 1. Asia Pacific Coordinate Grinding Machine Market Segmentation

Table 2. List of Vendors

Table 3. Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Table 4. Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Industry

Table 5. Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Machine Technology

Table 6. Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Country

Table 7. Australia: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Industry

Table 8. Australia: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Machine Technology

Table 9. China: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Industry

Table 10. China: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Machine Technology

Table 11. India: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Industry

Table 12. India: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Machine Technology

Table 13. Japan: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Industry

Table 14. Japan: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Machine Technology

Table 15. South Korea: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Industry

Table 16. South Korea: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Machine Technology

Table 17. Malaysia: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Industry

Table 18. Malaysia: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Machine Technology

Table 19. Taiwan: Asia Pacific Coordinate Grinding Machine Market - Revenue and

Forecast, 2021 - 2031 (US\$ Million) - by Industry

Table 20. Taiwan: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Machine Technology

Table 21. Thailand: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Industry

Table 22. Thailand: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Machine Technology

Table 23. Rest of APAC: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Industry

Table 24. Rest of APAC: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Machine Technology

Table 25. Heat Map Analysis by Key Players

List Of Figures

LIST OF FIGURES

Figure 1. Asia Pacific Coordinate Grinding Machine Market Segmentation - Country

Figure 3. Ecosystem: Coordinate Grinding Machine Market

Figure 4. Asia Pacific Coordinate Grinding Machine Market - Key Market Dynamics

Figure 5. Impact Analysis of Drivers and Restraints

Figure 6. Asia Pacific Coordinate Grinding Machine Market Revenue (US\$ Million), 2024 - 2031

Figure 7. Asia Pacific Coordinate Grinding Machine Market Share (%) - by Industry, 2024 and 2031

Figure 8. Medical: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 9. Mold and Die Industry: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 10. Aerospace and Defense: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 11. Automotive: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 12. Electric and Electronics: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 13. Industrial Machinery: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 14. Others: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 15. Asia Pacific Coordinate Grinding Machine Market Share (%) - by Machine Technology, 2024 and 2031

Figure 16. CNC or NC Machine: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 17. Conventional Machines: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 18. Asia Pacific Coordinate Grinding Machine Market Breakdown by Key Countries, 2024 and 2031 (%)

Figure 19. Australia: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 20. China: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 21. India: Asia Pacific Coordinate Grinding Machine Market - Revenue and

Forecast, 2021 - 2031 (US\$ Million)

Figure 22. Japan: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 23. South Korea: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 24. Malaysia: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 25. Taiwan: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 26. Thailand: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 27. Rest of APAC: Asia Pacific Coordinate Grinding Machine Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 28. Company Positioning & Concentration

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