

Global Aspherical Precision Molding Machine Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Aspherical Precision Molding Machine market size is expected to reach \$ 558 million by 2032, rising at a market growth of 30.3% CAGR during the forecast period (2026-2032).

An aspheric precision molding machine is an ultra-precision optical lens processing machine specifically designed for manufacturing aspheric optical lenses and high-precision optical components. It can mold optical glass into the desired aspheric shape in a single operation, achieving high dimensional and surface accuracy, as well as excellent surface quality. Typically equipped with high-precision molds, a temperature control system, a displacement monitoring device, and a pneumatic or electric drive mechanism, this machine enables stable production under strictly controlled temperature, pressure, and protective atmosphere, making it suitable for mass production of high-end optical components. The principle of an aspheric precision molding machine is based on optical glass precision compression molding technology, a highly efficient and environmentally friendly method for manufacturing high-precision optical components. Softened glass is placed into a high-precision mold and, under heat, pressure, and an oxygen-free environment, directly molded in a single operation to produce optical components that meet application requirements. Low-melting-point, high-quality optical glass is first heated to a softened state. Then, it is compression-molded in a high-precision aspheric mold under strictly controlled temperature, pressure, and an oxygen-free environment. Subsequently, it undergoes a precise cooling and annealing process to eliminate internal stresses and ensure the lens's geometric accuracy and optical performance. The entire process is controlled with high precision through the electronic control system, temperature control system and displacement monitoring device, so that the aspheric optical elements can stably replicate the mold shape and achieve high repeatability and consistency in production.

In 2024, the global production of aspheric precision molding machines reached 906 units, with an average sales price of US\$78,300 per unit. The aspheric precision molding machine industry chain can be divided into three major segments: upstream raw materials and components, midstream equipment manufacturing, and downstream application markets. The upstream segment primarily includes high-performance mold steel, optical glass materials, and key components such as CNC systems, sensors, displacement monitoring devices, and temperature control systems. The midstream segment is dominated by molding machine manufacturers, who manufacture equipment through mold design and processing, precision temperature and displacement control, and automated system integration. Some companies are also expanding into molds and optical components, creating an integrated advantage. The downstream segment focuses on optical component production, with products widely used in automotive cameras, LiDAR, AR/VR, drone optical systems, optical communications and 5G optical modules, and security.

Aspheric glass lenses, with their advantages of high transmittance, low distortion, wear resistance, and high temperature resistance, excel in image quality and stability. They are widely used in automotive cameras, lidar, optical communications, fiber lasers, and security applications. Their application scenarios are expanding with the expansion of emerging markets such as biomedicine. The rapid development of the global automotive industry and the trend towards intelligent driving have driven the expansion of the aspheric glass lens market, thereby driving broad development opportunities for aspheric molding machines, a core production equipment. Furthermore, national policies support the upgrading of the optical component manufacturing industry, accelerate domestic substitution, and encourage companies to achieve breakthroughs in aspheric precision molding technology, enhancing their independent R&D capabilities and control over the industrial chain. Despite this, the downstream market for aspheric molding machines is subject to fluctuations in demand, influenced by macroeconomic factors, policies, and end-product cycles. Their rapid technological evolution, encompassing control systems, temperature control, displacement monitoring, and mold processing, makes it difficult to meet high-precision requirements, placing them at risk of obsolescence, particularly in automotive and emerging applications. Furthermore, the high costs of equipment development, production, and maintenance could squeeze companies' profit margins if competition intensifies or prices fall. The company's reliance on imported key components also makes it vulnerable to supply chain fluctuations and trade restrictions. Furthermore, the development and operation of aspheric molding machines relies heavily on specialized talent. A lack of such talent will hinder new product development and capacity expansion, impacting the industry's long-term competitiveness.

This report studies the global Aspherical Precision Molding Machine production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Aspherical Precision Molding Machine and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Aspherical Precision Molding Machine that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Aspherical Precision Molding Machine total production and demand, 2021-2032, (Units)

Global Aspherical Precision Molding Machine total production value, 2021-2032, (USD Million)

Global Aspherical Precision Molding Machine production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Aspherical Precision Molding Machine consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Aspherical Precision Molding Machine domestic production, consumption, key domestic manufacturers and share

Global Aspherical Precision Molding Machine production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Aspherical Precision Molding Machine production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Aspherical Precision Molding Machine production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Aspherical Precision Molding Machine market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Guangdong Kinding Optical Technology, Shibaura Machine, SYS, Aachen Technology (Shenzhen), Daeho Technology Korea, Shenzhen Sen Di Source of Pneumatic Equipment Manufacturing, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Aspherical Precision Molding Machine market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Aspherical Precision Molding Machine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Aspherical Precision Molding Machine Market, Segmentation by Type:

Multi-station Molding Machine

Single-station Molding Machine

Global Aspherical Precision Molding Machine Market, Segmentation by Molded Product Format:

Individual Lens Molding Machine

Multi-cavity and Lens Array Molding Machine

Wafer-level Optics Molding Machine

Global Aspherical Precision Molding Machine Market, Segmentation by Molding Atmosphere:

Inert-gas Atmosphere Type

Vacuum Type

Vacuum?Inert Gas Hybrid Type

Global Aspherical Precision Molding Machine Market, Segmentation by Application:

Security

Automotive Cameras

Mobile Phones

Drones

AR/VR

LiDAR

Infrared Products

Humanoid Robots

5G Optical Modules

Digital Cameras

Other

Companies Profiled:

Guangdong Kinding Optical Technology

Shibaura Machine

SYS

Aachen Technology (Shenzhen)

Daeho Technology Korea

Shenzhen Sen Di Source of Pneumatic Equipment Manufacturing

Key Questions Answered:

1. How big is the global Aspherical Precision Molding Machine market?
2. What is the demand of the global Aspherical Precision Molding Machine market?
3. What is the year over year growth of the global Aspherical Precision Molding Machine market?
4. What is the production and production value of the global Aspherical Precision Molding Machine market?
5. Who are the key producers in the global Aspherical Precision Molding Machine market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Aspherical Precision Molding Machine Introduction
- 1.2 World Aspherical Precision Molding Machine Supply & Forecast
 - 1.2.1 World Aspherical Precision Molding Machine Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Aspherical Precision Molding Machine Production (2021-2032)
 - 1.2.3 World Aspherical Precision Molding Machine Pricing Trends (2021-2032)
- 1.3 World Aspherical Precision Molding Machine Production by Region (Based on Production Site)
 - 1.3.1 World Aspherical Precision Molding Machine Production Value by Region (2021-2032)
 - 1.3.2 World Aspherical Precision Molding Machine Production by Region (2021-2032)
 - 1.3.3 World Aspherical Precision Molding Machine Average Price by Region (2021-2032)
 - 1.3.4 North America Aspherical Precision Molding Machine Production (2021-2032)
 - 1.3.5 Europe Aspherical Precision Molding Machine Production (2021-2032)
 - 1.3.6 China Aspherical Precision Molding Machine Production (2021-2032)
 - 1.3.7 Japan Aspherical Precision Molding Machine Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Aspherical Precision Molding Machine Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Aspherical Precision Molding Machine Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Aspherical Precision Molding Machine Demand (2021-2032)
- 2.2 World Aspherical Precision Molding Machine Consumption by Region
 - 2.2.1 World Aspherical Precision Molding Machine Consumption by Region (2021-2026)
 - 2.2.2 World Aspherical Precision Molding Machine Consumption Forecast by Region (2027-2032)
- 2.3 United States Aspherical Precision Molding Machine Consumption (2021-2032)
- 2.4 China Aspherical Precision Molding Machine Consumption (2021-2032)
- 2.5 Europe Aspherical Precision Molding Machine Consumption (2021-2032)
- 2.6 Japan Aspherical Precision Molding Machine Consumption (2021-2032)
- 2.7 South Korea Aspherical Precision Molding Machine Consumption (2021-2032)

2.8 ASEAN Aspherical Precision Molding Machine Consumption (2021-2032)

2.9 India Aspherical Precision Molding Machine Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Aspherical Precision Molding Machine Production Value by Manufacturer (2021-2026)

3.2 World Aspherical Precision Molding Machine Production by Manufacturer (2021-2026)

3.3 World Aspherical Precision Molding Machine Average Price by Manufacturer (2021-2026)

3.4 Aspherical Precision Molding Machine Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Aspherical Precision Molding Machine Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Aspherical Precision Molding Machine in 2025

3.5.3 Global Concentration Ratios (CR8) for Aspherical Precision Molding Machine in 2025

3.6 Aspherical Precision Molding Machine Market: Overall Company Footprint Analysis

3.6.1 Aspherical Precision Molding Machine Market: Region Footprint

3.6.2 Aspherical Precision Molding Machine Market: Company Product Type Footprint

3.6.3 Aspherical Precision Molding Machine Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Aspherical Precision Molding Machine Production Value Comparison

4.1.1 United States VS China: Aspherical Precision Molding Machine Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Aspherical Precision Molding Machine Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Aspherical Precision Molding Machine Production Comparison

4.2.1 United States VS China: Aspherical Precision Molding Machine Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Aspherical Precision Molding Machine Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Aspherical Precision Molding Machine Consumption Comparison

4.3.1 United States VS China: Aspherical Precision Molding Machine Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Aspherical Precision Molding Machine Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Aspherical Precision Molding Machine Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Aspherical Precision Molding Machine Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Aspherical Precision Molding Machine Production Value (2021-2026)

4.4.3 United States Based Manufacturers Aspherical Precision Molding Machine Production (2021-2026)

4.5 China Based Aspherical Precision Molding Machine Manufacturers and Market Share

4.5.1 China Based Aspherical Precision Molding Machine Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Aspherical Precision Molding Machine Production Value (2021-2026)

4.5.3 China Based Manufacturers Aspherical Precision Molding Machine Production (2021-2026)

4.6 Rest of World Based Aspherical Precision Molding Machine Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Aspherical Precision Molding Machine Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Aspherical Precision Molding Machine Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Aspherical Precision Molding Machine Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Aspherical Precision Molding Machine Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Multi-station Molding Machine

5.2.2 Single-station Molding Machine

5.3 Market Segment by Type

5.3.1 World Aspherical Precision Molding Machine Production by Type (2021-2032)

5.3.2 World Aspherical Precision Molding Machine Production Value by Type (2021-2032)

5.3.3 World Aspherical Precision Molding Machine Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY MOLDED PRODUCT FORMAT

6.1 World Aspherical Precision Molding Machine Market Size Overview by Molded Product Format: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Molded Product Format

6.2.1 Individual Lens Molding Machine

6.2.2 Multi-cavity and Lens Array Molding Machine

6.2.3 Wafer-level Optics Molding Machine

6.3 Market Segment by Molded Product Format

6.3.1 World Aspherical Precision Molding Machine Production by Molded Product Format (2021-2032)

6.3.2 World Aspherical Precision Molding Machine Production Value by Molded Product Format (2021-2032)

6.3.3 World Aspherical Precision Molding Machine Average Price by Molded Product Format (2021-2032)

7 MARKET ANALYSIS BY MOLDING ATMOSPHERE

7.1 World Aspherical Precision Molding Machine Market Size Overview by Molding Atmosphere: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Molding Atmosphere

7.2.1 Inert-gas Atmosphere Type

7.2.2 Vacuum Type

7.2.3 Vacuum?Inert Gas Hybrid Type

7.3 Market Segment by Molding Atmosphere

7.3.1 World Aspherical Precision Molding Machine Production by Molding Atmosphere (2021-2032)

7.3.2 World Aspherical Precision Molding Machine Production Value by Molding

Atmosphere (2021-2032)

7.3.3 World Aspherical Precision Molding Machine Average Price by Molding

Atmosphere (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Aspherical Precision Molding Machine Market Size Overview by Application:
2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Security

8.2.2 Automotive Cameras

8.2.3 Mobile Phones

8.2.4 Drones

8.2.5 AR/VR

8.2.6 LiDAR

8.2.7 Infrared Products

8.2.8 Humanoid Robots

8.2.9 5G Optical Modules

8.3 Market Segment by Application

8.3.1 World Aspherical Precision Molding Machine Production by Application
(2021-2032)

8.3.2 World Aspherical Precision Molding Machine Production Value by Application
(2021-2032)

8.3.3 World Aspherical Precision Molding Machine Average Price by Application
(2021-2032)

9 COMPANY PROFILES

9.1 Guangdong Kinding Optical Technology

9.1.1 Guangdong Kinding Optical Technology Details

9.1.2 Guangdong Kinding Optical Technology Major Business

9.1.3 Guangdong Kinding Optical Technology Aspherical Precision Molding Machine
Product and Services

9.1.4 Guangdong Kinding Optical Technology Aspherical Precision Molding Machine
Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Guangdong Kinding Optical Technology Recent Developments/Updates

9.1.6 Guangdong Kinding Optical Technology Competitive Strengths & Weaknesses

9.2 Shibaura Machine

9.2.1 Shibaura Machine Details

- 9.2.2 Shibaura Machine Major Business
- 9.2.3 Shibaura Machine Aspherical Precision Molding Machine Product and Services
- 9.2.4 Shibaura Machine Aspherical Precision Molding Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 Shibaura Machine Recent Developments/Updates
- 9.2.6 Shibaura Machine Competitive Strengths & Weaknesses
- 9.3 SYS
 - 9.3.1 SYS Details
 - 9.3.2 SYS Major Business
 - 9.3.3 SYS Aspherical Precision Molding Machine Product and Services
 - 9.3.4 SYS Aspherical Precision Molding Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 SYS Recent Developments/Updates
 - 9.3.6 SYS Competitive Strengths & Weaknesses
- 9.4 Aachen Technology (Shenzhen)
 - 9.4.1 Aachen Technology (Shenzhen) Details
 - 9.4.2 Aachen Technology (Shenzhen) Major Business
 - 9.4.3 Aachen Technology (Shenzhen) Aspherical Precision Molding Machine Product and Services
 - 9.4.4 Aachen Technology (Shenzhen) Aspherical Precision Molding Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Aachen Technology (Shenzhen) Recent Developments/Updates
 - 9.4.6 Aachen Technology (Shenzhen) Competitive Strengths & Weaknesses
- 9.5 Daeho Technology Korea
 - 9.5.1 Daeho Technology Korea Details
 - 9.5.2 Daeho Technology Korea Major Business
 - 9.5.3 Daeho Technology Korea Aspherical Precision Molding Machine Product and Services
 - 9.5.4 Daeho Technology Korea Aspherical Precision Molding Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Daeho Technology Korea Recent Developments/Updates
 - 9.5.6 Daeho Technology Korea Competitive Strengths & Weaknesses
- 9.6 Shenzhen Sen Di Source of Pneumatic Equipment Manufacturing
 - 9.6.1 Shenzhen Sen Di Source of Pneumatic Equipment Manufacturing Details
 - 9.6.2 Shenzhen Sen Di Source of Pneumatic Equipment Manufacturing Major Business
 - 9.6.3 Shenzhen Sen Di Source of Pneumatic Equipment Manufacturing Aspherical Precision Molding Machine Product and Services
 - 9.6.4 Shenzhen Sen Di Source of Pneumatic Equipment Manufacturing Aspherical

Precision Molding Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Shenzhen Sen Di Source of Pneumatic Equipment Manufacturing Recent Developments/Updates

9.6.6 Shenzhen Sen Di Source of Pneumatic Equipment Manufacturing Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Aspherical Precision Molding Machine Industry Chain

10.2 Aspherical Precision Molding Machine Upstream Analysis

10.2.1 Aspherical Precision Molding Machine Core Raw Materials

10.2.2 Main Manufacturers of Aspherical Precision Molding Machine Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Aspherical Precision Molding Machine Production Mode

10.6 Aspherical Precision Molding Machine Procurement Model

10.7 Aspherical Precision Molding Machine Industry Sales Model and Sales Channels

10.7.1 Aspherical Precision Molding Machine Sales Model

10.7.2 Aspherical Precision Molding Machine Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Aspherical Precision Molding Machine Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Aspherical Precision Molding Machine Production Value by Region (2021-2026) & (USD Million)

Table 3. World Aspherical Precision Molding Machine Production Value by Region (2027-2032) & (USD Million)

Table 4. World Aspherical Precision Molding Machine Production Value Market Share by Region (2021-2026)

Table 5. World Aspherical Precision Molding Machine Production Value Market Share by Region (2027-2032)

Table 6. World Aspherical Precision Molding Machine Production by Region (2021-2026) & (Units)

Table 7. World Aspherical Precision Molding Machine Production by Region (2027-2032) & (Units)

Table 8. World Aspherical Precision Molding Machine Production Market Share by Region (2021-2026)

Table 9. World Aspherical Precision Molding Machine Production Market Share by Region (2027-2032)

Table 10. World Aspherical Precision Molding Machine Average Price by Region (2021-2026) & (K US\$/Unit)

Table 11. World Aspherical Precision Molding Machine Average Price by Region (2027-2032) & (K US\$/Unit)

Table 12. Aspherical Precision Molding Machine Major Market Trends

Table 13. World Aspherical Precision Molding Machine Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Aspherical Precision Molding Machine Consumption by Region (2021-2026) & (Units)

Table 15. World Aspherical Precision Molding Machine Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Aspherical Precision Molding Machine Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Aspherical Precision Molding Machine Producers in 2025

Table 18. World Aspherical Precision Molding Machine Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Aspherical Precision Molding Machine Producers in 2025

Table 20. World Aspherical Precision Molding Machine Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 21. Global Aspherical Precision Molding Machine Company Evaluation Quadrant

Table 22. World Aspherical Precision Molding Machine Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Aspherical Precision Molding Machine Production Site of Key Manufacturer

Table 24. Aspherical Precision Molding Machine Market: Company Product Type Footprint

Table 25. Aspherical Precision Molding Machine Market: Company Product Application Footprint

Table 26. Aspherical Precision Molding Machine Competitive Factors

Table 27. Aspherical Precision Molding Machine New Entrant and Capacity Expansion Plans

Table 28. Aspherical Precision Molding Machine Mergers & Acquisitions Activity

Table 29. United States VS China Aspherical Precision Molding Machine Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Aspherical Precision Molding Machine Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Aspherical Precision Molding Machine Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Aspherical Precision Molding Machine Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Aspherical Precision Molding Machine Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Aspherical Precision Molding Machine Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Aspherical Precision Molding Machine Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Aspherical Precision Molding Machine Production Market Share (2021-2026)

Table 37. China Based Aspherical Precision Molding Machine Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Aspherical Precision Molding Machine Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Aspherical Precision Molding Machine Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Aspherical Precision Molding Machine Production, (2021-2026) & (Units)
Table 41. China Based Manufacturers Aspherical Precision Molding Machine Production Market Share (2021-2026)
Table 42. Rest of World Based Aspherical Precision Molding Machine Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers Aspherical Precision Molding Machine Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers Aspherical Precision Molding Machine Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers Aspherical Precision Molding Machine Production, (2021-2026) & (Units)
Table 46. Rest of World Based Manufacturers Aspherical Precision Molding Machine Production Market Share (2021-2026)
Table 47. World Aspherical Precision Molding Machine Production Value by Type, (USD Million), 2021 & 2025 & 2032
Table 48. World Aspherical Precision Molding Machine Production by Type (2021-2026) & (Units)
Table 49. World Aspherical Precision Molding Machine Production by Type (2027-2032) & (Units)
Table 50. World Aspherical Precision Molding Machine Production Value by Type (2021-2026) & (USD Million)
Table 51. World Aspherical Precision Molding Machine Production Value by Type (2027-2032) & (USD Million)
Table 52. World Aspherical Precision Molding Machine Average Price by Type (2021-2026) & (K US\$/Unit)
Table 53. World Aspherical Precision Molding Machine Average Price by Type (2027-2032) & (K US\$/Unit)
Table 54. World Aspherical Precision Molding Machine Production Value by Molded Product Format, (USD Million), 2021 & 2025 & 2032
Table 55. World Aspherical Precision Molding Machine Production by Molded Product Format (2021-2026) & (Units)
Table 56. World Aspherical Precision Molding Machine Production by Molded Product Format (2027-2032) & (Units)
Table 57. World Aspherical Precision Molding Machine Production Value by Molded Product Format (2021-2026) & (USD Million)
Table 58. World Aspherical Precision Molding Machine Production Value by Molded Product Format (2027-2032) & (USD Million)
Table 59. World Aspherical Precision Molding Machine Average Price by Molded

Product Format (2021-2026) & (K US\$/Unit)

Table 60. World Aspherical Precision Molding Machine Average Price by Molded Product Format (2027-2032) & (K US\$/Unit)

Table 61. World Aspherical Precision Molding Machine Production Value by Molding Atmosphere, (USD Million), 2021 & 2025 & 2032

Table 62. World Aspherical Precision Molding Machine Production by Molding Atmosphere (2021-2026) & (Units)

Table 63. World Aspherical Precision Molding Machine Production by Molding Atmosphere (2027-2032) & (Units)

Table 64. World Aspherical Precision Molding Machine Production Value by Molding Atmosphere (2021-2026) & (USD Million)

Table 65. World Aspherical Precision Molding Machine Production Value by Molding Atmosphere (2027-2032) & (USD Million)

Table 66. World Aspherical Precision Molding Machine Average Price by Molding Atmosphere (2021-2026) & (K US\$/Unit)

Table 67. World Aspherical Precision Molding Machine Average Price by Molding Atmosphere (2027-2032) & (K US\$/Unit)

Table 68. World Aspherical Precision Molding Machine Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Aspherical Precision Molding Machine Production by Application (2021-2026) & (Units)

Table 70. World Aspherical Precision Molding Machine Production by Application (2027-2032) & (Units)

Table 71. World Aspherical Precision Molding Machine Production Value by Application (2021-2026) & (USD Million)

Table 72. World Aspherical Precision Molding Machine Production Value by Application (2027-2032) & (USD Million)

Table 73. World Aspherical Precision Molding Machine Average Price by Application (2021-2026) & (K US\$/Unit)

Table 74. World Aspherical Precision Molding Machine Average Price by Application (2027-2032) & (K US\$/Unit)

Table 75. Guangdong Kinding Optical Technology Basic Information, Manufacturing Base and Competitors

Table 76. Guangdong Kinding Optical Technology Major Business

Table 77. Guangdong Kinding Optical Technology Aspherical Precision Molding Machine Product and Services

Table 78. Guangdong Kinding Optical Technology Aspherical Precision Molding Machine Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Guangdong Kinding Optical Technology Recent Developments/Updates

Table 80. Guangdong Kinding Optical Technology Competitive Strengths & Weaknesses

Table 81. Shibaura Machine Basic Information, Manufacturing Base and Competitors

Table 82. Shibaura Machine Major Business

Table 83. Shibaura Machine Aspherical Precision Molding Machine Product and Services

Table 84. Shibaura Machine Aspherical Precision Molding Machine Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Shibaura Machine Recent Developments/Updates

Table 86. Shibaura Machine Competitive Strengths & Weaknesses

Table 87. SYS Basic Information, Manufacturing Base and Competitors

Table 88. SYS Major Business

Table 89. SYS Aspherical Precision Molding Machine Product and Services

Table 90. SYS Aspherical Precision Molding Machine Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. SYS Recent Developments/Updates

Table 92. SYS Competitive Strengths & Weaknesses

Table 93. Aachen Technology (Shenzhen) Basic Information, Manufacturing Base and Competitors

Table 94. Aachen Technology (Shenzhen) Major Business

Table 95. Aachen Technology (Shenzhen) Aspherical Precision Molding Machine Product and Services

Table 96. Aachen Technology (Shenzhen) Aspherical Precision Molding Machine Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Aachen Technology (Shenzhen) Recent Developments/Updates

Table 98. Aachen Technology (Shenzhen) Competitive Strengths & Weaknesses

Table 99. Daeho Technology Korea Basic Information, Manufacturing Base and Competitors

Table 100. Daeho Technology Korea Major Business

Table 101. Daeho Technology Korea Aspherical Precision Molding Machine Product and Services

Table 102. Daeho Technology Korea Aspherical Precision Molding Machine Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Daeho Technology Korea Recent Developments/Updates

Table 104. Daeho Technology Korea Competitive Strengths & Weaknesses
Table 105. Shenzhen Sen Di Source of Pneumatic Equipment Manufacturing Basic Information, Manufacturing Base and Competitors
Table 106. Shenzhen Sen Di Source of Pneumatic Equipment Manufacturing Major Business
Table 107. Shenzhen Sen Di Source of Pneumatic Equipment Manufacturing Aspherical Precision Molding Machine Product and Services
Table 108. Shenzhen Sen Di Source of Pneumatic Equipment Manufacturing Aspherical Precision Molding Machine Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Shenzhen Sen Di Source of Pneumatic Equipment Manufacturing Recent Developments/Updates
Table 110. Shenzhen Sen Di Source of Pneumatic Equipment Manufacturing Competitive Strengths & Weaknesses
Table 111. Global Key Players of Aspherical Precision Molding Machine Upstream (Raw Materials)
Table 112. Global Aspherical Precision Molding Machine Typical Customers
Table 113. Aspherical Precision Molding Machine Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Aspherical Precision Molding Machine Picture
- Figure 2. World Aspherical Precision Molding Machine Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Aspherical Precision Molding Machine Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Aspherical Precision Molding Machine Production (2021-2032) & (Units)
- Figure 5. World Aspherical Precision Molding Machine Average Price (2021-2032) & (K US\$/Unit)
- Figure 6. World Aspherical Precision Molding Machine Production Value Market Share by Region (2021-2032)
- Figure 7. World Aspherical Precision Molding Machine Production Market Share by Region (2021-2032)
- Figure 8. North America Aspherical Precision Molding Machine Production (2021-2032) & (Units)
- Figure 9. Europe Aspherical Precision Molding Machine Production (2021-2032) & (Units)
- Figure 10. China Aspherical Precision Molding Machine Production (2021-2032) & (Units)
- Figure 11. Japan Aspherical Precision Molding Machine Production (2021-2032) & (Units)
- Figure 12. Aspherical Precision Molding Machine Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World Aspherical Precision Molding Machine Consumption (2021-2032) & (Units)
- Figure 15. World Aspherical Precision Molding Machine Consumption Market Share by Region (2021-2032)
- Figure 16. United States Aspherical Precision Molding Machine Consumption (2021-2032) & (Units)
- Figure 17. China Aspherical Precision Molding Machine Consumption (2021-2032) & (Units)
- Figure 18. Europe Aspherical Precision Molding Machine Consumption (2021-2032) & (Units)
- Figure 19. Japan Aspherical Precision Molding Machine Consumption (2021-2032) & (Units)
- Figure 20. South Korea Aspherical Precision Molding Machine Consumption

(2021-2032) & (Units)

Figure 21. ASEAN Aspherical Precision Molding Machine Consumption (2021-2032) & (Units)

Figure 22. India Aspherical Precision Molding Machine Consumption (2021-2032) & (Units)

Figure 23. Producer Shipments of Aspherical Precision Molding Machine by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Aspherical Precision Molding Machine Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Aspherical Precision Molding Machine Markets in 2025

Figure 26. United States VS China: Aspherical Precision Molding Machine Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Aspherical Precision Molding Machine Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Aspherical Precision Molding Machine Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Aspherical Precision Molding Machine Production Market Share 2025

Figure 30. China Based Manufacturers Aspherical Precision Molding Machine Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Aspherical Precision Molding Machine Production Market Share 2025

Figure 32. World Aspherical Precision Molding Machine Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Aspherical Precision Molding Machine Production Value Market Share by Type in 2025

Figure 34. Multi-station Molding Machine

Figure 35. Single-station Molding Machine

Figure 36. World Aspherical Precision Molding Machine Production Market Share by Type (2021-2032)

Figure 37. World Aspherical Precision Molding Machine Production Value Market Share by Type (2021-2032)

Figure 38. World Aspherical Precision Molding Machine Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 39. World Aspherical Precision Molding Machine Production Value by Molded Product Format, (USD Million), 2021 & 2025 & 2032

Figure 40. World Aspherical Precision Molding Machine Production Value Market Share by Molded Product Format in 2025

Figure 41. Individual Lens Molding Machine

Figure 42. Multi-cavity and Lens Array Molding Machine

Figure 43. Wafer-level Optics Molding Machine

Figure 44. World Aspherical Precision Molding Machine Production Market Share by Molded Product Format (2021-2032)

Figure 45. World Aspherical Precision Molding Machine Production Value Market Share by Molded Product Format (2021-2032)

Figure 46. World Aspherical Precision Molding Machine Average Price by Molded Product Format (2021-2032) & (K US\$/Unit)

Figure 47. World Aspherical Precision Molding Machine Production Value by Molding Atmosphere, (USD Million), 2021 & 2025 & 2032

Figure 48. World Aspherical Precision Molding Machine Production Value Market Share by Molding Atmosphere in 2025

Figure 49. Inert-gas Atmosphere Type

Figure 50. Vacuum Type

Figure 51. Vacuum?Inert Gas Hybrid Type

Figure 52. World Aspherical Precision Molding Machine Production Market Share by Molding Atmosphere (2021-2032)

Figure 53. World Aspherical Precision Molding Machine Production Value Market Share by Molding Atmosphere (2021-2032)

Figure 54. World Aspherical Precision Molding Machine Average Price by Molding Atmosphere (2021-2032) & (K US\$/Unit)

Figure 55. World Aspherical Precision Molding Machine Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World Aspherical Precision Molding Machine Production Value Market Share by Application in 2025

Figure 57. Security

Figure 58. Automotive Cameras

Figure 59. Mobile Phones

Figure 60. Drones

Figure 61. AR/VR

Figure 62. LiDAR

Figure 63. Infrared Products

Figure 64. Humanoid Robots

Figure 65. Humanoid Robots

Figure 66. World Aspherical Precision Molding Machine Production Market Share by Application (2021-2032)

Figure 67. World Aspherical Precision Molding Machine Production Value Market Share by Application (2021-2032)

Figure 68. World Aspherical Precision Molding Machine Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 69. Aspherical Precision Molding Machine Industry Chain

Figure 70. Aspherical Precision Molding Machine Procurement Model

Figure 71. Aspherical Precision Molding Machine Sales Model

Figure 72. Aspherical Precision Molding Machine Sales Channels, Direct Sales, and Distribution

Figure 73. Methodology

Figure 74. Research Process and Data Source

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