

# **Global High Precision Asphere Market Size Study, by Product Type (Glass Aspherical Lens, Plastic Aspherical Lens), by Application (Automotive, Cameras, Optical Instruments, Mobile Phones and Tablets, Others), and Regional Forecasts 2022-2032**

<https://marketpublishers.com/r/G7FEDAF32AEEEN.html>

Date: July 2024

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: G7FEDAF32AEEEN

## **Abstracts**

The global High Precision Asphere Market is valued at approximately USD 2.51 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 5.0% over the forecast period 2024-2032. The surge in demand for superior optical components that enhance imaging performance and functionality is propelling the global high precision asphere market. Aspheres are critical in optical systems for achieving higher resolution, improved light-gathering efficiency, and minimized aberrations, leading to superior image quality and sharper focus across diverse imaging applications. The adoption of aspheres in advanced manufacturing processes, including 3D printing, lithography, and semiconductor fabrication, is driving the demand for high precision aspheres with ultra-precise surface profiles and sub-micron tolerances. These components are vital for meeting stringent specifications and ensuring consistency in manufacturing operations, especially in industries such as semiconductor, electronics, and precision engineering.

Technological advancements in manufacturing techniques, such as CNC machining, diamond turning, and precision polishing, have enabled the production of high precision aspheres with increasingly intricate shapes and tighter tolerances. These advancements have expanded the capabilities of high precision aspheres, facilitating customized optical designs and innovative solutions across various applications. The market is also benefiting from the rising need for compact and lightweight optical systems in sectors such as aerospace, defense, automotive, and consumer electronics. Aspheres offer significant advantages in reducing the size, weight, and complexity of optical systems while maintaining exceptional optical performance, making them highly

desirable for applications where space and weight constraints are critical.

The key regions considered for the global High Precision Asphere market study include Asia Pacific, North America, Europe, Latin America, and Middle East and Africa. In 2023, Asia Pacific emerged as the dominant segment, holding the largest market share in terms of value. The region's strong manufacturing infrastructure, advanced machining technologies, and skilled labor contribute to the production of high-precision aspheres. Additionally, significant investments in optics research and development in countries such as China, Japan, South Korea, and Taiwan have fostered expertise in optical engineering and precision manufacturing techniques. On the other hand, North America is poised to register fastest growth owing to rising research and development activities and rising industrialization in the region.

Major market players included in this report are:

Nikon Corporation

Canon Inc.

Edmund Optics Inc.

Panasonic Corporation

HOYA Corporation

AGC Inc.

SCHOTT Group

Carl Zeiss AG

Largan Precision Co., Ltd.

Asia Optical Co., Inc.

Precision Optics Corporation

LightPath Technologies

FISBA AG

Thorlabs Inc.

Kyocera Corporation

The detailed segments and sub-segment of the market are explained below:

By Product Type:

Glass Aspherical Lens

Plastic Aspherical Lens

By Application:

Automotive

Cameras

Optical Instruments

Mobile Phones and Tablets

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Rest of Latin America

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

## Contents

### **CHAPTER 1. GLOBAL HIGH PRECISION ASPHERE MARKET EXECUTIVE SUMMARY**

- 1.1. Global High Precision Asphere Market Size & Forecast (2022- 2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
  - 1.3.1. By Product Type
  - 1.3.2. By Application
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

### **CHAPTER 2. GLOBAL HIGH PRECISION ASPHERE MARKET DEFINITION AND RESEARCH ASSUMPTIONS**

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
  - 2.3.1. Inclusion & Exclusion
  - 2.3.2. Limitations
  - 2.3.3. Supply Side Analysis
    - 2.3.3.1. Availability
    - 2.3.3.2. Infrastructure
    - 2.3.3.3. Regulatory Environment
    - 2.3.3.4. Market Competition
    - 2.3.3.5. Economic Viability (Consumer's Perspective)
  - 2.3.4. Demand Side Analysis
    - 2.3.4.1. Regulatory frameworks
    - 2.3.4.2. Technological Advancements
    - 2.3.4.3. Environmental Considerations
    - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

### **CHAPTER 3. GLOBAL HIGH PRECISION ASPHERE MARKET DYNAMICS**

### 3.1. Market Drivers

- 3.1.1. Increasing Demand for Superior Optical Components
- 3.1.2. Rising Adoption in Advanced Manufacturing Processes
- 3.1.3. Technological Advancements in Manufacturing Techniques

### 3.2. Market Challenges

- 3.2.1. Complexities Associated with Design
- 3.2.2. Achieving Precise Surface Characteristics

### 3.3. Market Opportunities

- 3.3.1. Growing Need for Compact and Lightweight Optical Systems
- 3.3.2. Expanding Capabilities with Advanced Manufacturing
- 3.3.3. Increasing Applications in Various Sectors

## **CHAPTER 4. GLOBAL HIGH PRECISION ASPHERE MARKET INDUSTRY ANALYSIS**

### 4.1. Porter's 5 Force Model

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.1.6. Futuristic Approach to Porter's 5 Force Model
- 4.1.7. Porter's 5 Force Impact Analysis

### 4.2. PESTEL Analysis

- 4.2.1. Political
- 4.2.2. Economical
- 4.2.3. Social
- 4.2.4. Technological
- 4.2.5. Environmental
- 4.2.6. Legal

### 4.3. Top investment opportunity

### 4.4. Top winning strategies

### 4.5. Disruptive Trends

### 4.6. Industry Expert Perspective

### 4.7. Analyst Recommendation & Conclusion

## **CHAPTER 5. GLOBAL HIGH PRECISION ASPHERE MARKET SIZE & FORECASTS BY PRODUCT TYPE 2022-2032**

### 5.1. Segment Dashboard

### 5.2. Global High Precision Asphere Market: Product Type Revenue Trend Analysis, 2022 & 2032 (USD Billion)

#### 5.2.1. Glass Aspherical Lens

#### 5.2.2. Plastic Aspherical Lens

## **CHAPTER 6. GLOBAL HIGH PRECISION ASPHERE MARKET SIZE & FORECASTS BY APPLICATION 2022-2032**

### 6.1. Segment Dashboard

### 6.2. Global High Precision Asphere Market: Application Revenue Trend Analysis, 2022 & 2032 (USD Billion)

#### 6.2.1. Automotive

#### 6.2.2. Cameras

#### 6.2.3. Optical Instruments

#### 6.2.4. Mobile Phones and Tablets

#### 6.2.5. Others

## **CHAPTER 7. GLOBAL HIGH PRECISION ASPHERE MARKET SIZE & FORECASTS BY REGION 2022-2032**

### 7.1. North America High Precision Asphere Market

#### 7.1.1. U.S. High Precision Asphere Market

##### 7.1.1.1. Product Type breakdown size & forecasts, 2022-2032

##### 7.1.1.2. Application breakdown size & forecasts, 2022-2032

#### 7.1.2. Canada High Precision Asphere Market

##### 7.1.2.1. Product Type breakdown size & forecasts, 2022-2032

##### 7.1.2.2. Application breakdown size & forecasts, 2022-2032

### 7.2. Europe High Precision Asphere Market

#### 7.2.1. U.K. High Precision Asphere Market

#### 7.2.2. Germany High Precision Asphere Market

#### 7.2.3. France High Precision Asphere Market

#### 7.2.4. Spain High Precision Asphere Market

#### 7.2.5. Italy High Precision Asphere Market

#### 7.2.6. Rest of Europe High Precision Asphere Market

### 7.3. Asia-Pacific High Precision Asphere Market

#### 7.3.1. China High Precision Asphere Market

#### 7.3.2. India High Precision Asphere Market

#### 7.3.3. Japan High Precision Asphere Market



- 7.3.4. Australia High Precision Asphere Market
- 7.3.5. South Korea High Precision Asphere Market
- 7.3.6. Rest of Asia Pacific High Precision Asphere Market
- 7.4. Latin America High Precision Asphere Market
  - 7.4.1. Brazil High Precision Asphere Market
  - 7.4.2. Mexico High Precision Asphere Market
  - 7.4.3. Rest of Latin America High Precision Asphere Market
- 7.5. Middle East & Africa High Precision Asphere Market
  - 7.5.1. Saudi Arabia High Precision Asphere Market
  - 7.5.2. South Africa High Precision Asphere Market
  - 7.5.3. Rest of Middle East & Africa High Precision Asphere Market

## **CHAPTER 8. COMPETITIVE INTELLIGENCE**

- 8.1. Key Company SWOT Analysis
  - 8.1.1. Company
  - 8.1.2. Company
  - 8.1.3. Company
- 8.2. Top Market Strategies
- 8.3. Company Profiles
  - 8.3.1. Nikon Corporation
  - 8.3.2. Canon Inc.
  - 8.3.3. Edmund Optics Inc.
  - 8.3.4. Panasonic Corporation
  - 8.3.5. HOYA Corporation
  - 8.3.6. AGC Inc.
  - 8.3.7. SCHOTT Group
  - 8.3.8. Carl Zeiss AG
  - 8.3.9. Largan Precision Co., Ltd.
  - 8.3.10. Asia Optical Co., Inc.
  - 8.3.11. Precision Optics Corporation
  - 8.3.12. LightPath Technologies
  - 8.3.13. FISBA AG
  - 8.3.14. Thorlabs Inc.
  - 8.3.15. Kyocera Corporation

## **CHAPTER 9. RESEARCH PROCESS**

- 9.1. Research Process

- 9.1.1. Data Mining
- 9.1.2. Analysis
- 9.1.3. Market Estimation
- 9.1.4. Validation
- 9.1.5. Publishing
- 9.2. Research Attributes

## List Of Tables

### LIST OF TABLES

TABLE 1. Global High Precision Asphere market, report scope

TABLE 2. Global High Precision Asphere market estimates & forecasts by Region  
2022-2032 (USD Billion)

TABLE 3. Global High Precision Asphere market estimates & forecasts by Product Type  
2022-2032 (USD Billion)

TABLE 4. Global High Precision Asphere market estimates & forecasts by Application  
2022-2032 (USD Billion)

TABLE 5. Global High Precision Asphere market by segment, estimates & forecasts,  
2022-2032 (USD Billion)

TABLE 6. Global High Precision Asphere market by region, estimates & forecasts,  
2022-2032 (USD Billion)

TABLE 7. Global High Precision Asphere market by segment, estimates & forecasts,  
2022-2032 (USD Billion)

TABLE 8. Global High Precision Asphere market by region, estimates & forecasts,  
2022-2032 (USD Billion)

TABLE 9. Global High Precision Asphere market by segment, estimates & forecasts,  
2022-2032 (USD Billion)

TABLE 10. Global High Precision Asphere market by region, estimates & forecasts,  
2022-2032 (USD Billion)

TABLE 11. Global High Precision Asphere market by segment, estimates & forecasts,  
2022-2032 (USD Billion)

TABLE 12. Global High Precision Asphere market by region, estimates & forecasts,  
2022-2032 (USD Billion)

TABLE 13. Global High Precision Asphere market by segment, estimates & forecasts,  
2022-2032 (USD Billion)

TABLE 14. Global High Precision Asphere market by region, estimates & forecasts,  
2022-2032 (USD Billion)

TABLE 15. U.S. High Precision Asphere market estimates & forecasts, 2022-2032  
(USD Billion)

TABLE 16. U.S. High Precision Asphere market estimates & forecasts by segment  
2022-2032 (USD Billion)

TABLE 17. U.S. High Precision Asphere market estimates & forecasts by segment  
2022-2032 (USD Billion)

TABLE 18. Canada High Precision Asphere market estimates & forecasts, 2022-2032  
(USD Billion)

TABLE 19. Canada High Precision Asphere market estimates & forecasts by segment  
2022-2032 (USD Billion)

TABLE 20. Canada High Precision Asphere market estimates & forecasts by segment  
2022-2032 (USD Billion)

.....

This list is not complete, final report does contain more than 100 tables. The list may be updated in the final deliverable.

## List Of Figures

### LIST OF FIGURES

- FIG 1. Global High Precision Asphere market, research methodology
- FIG 2. Global High Precision Asphere market, market estimation techniques
- FIG 3. Global market size estimates & forecast methods.
- FIG 4. Global High Precision Asphere market, key trends 2023
- FIG 5. Global High Precision Asphere market, growth prospects 2022-2032
- FIG 6. Global High Precision Asphere market, porters 5 force model
- FIG 7. Global High Precision Asphere market, PESTEL analysis
- FIG 8. Global High Precision Asphere market, value chain analysis
- FIG 9. Global High Precision Asphere market by segment, 2022 & 2032 (USD Billion)
- FIG 10. Global High Precision Asphere market by segment, 2022 & 2032 (USD Billion)
- FIG 11. Global High Precision Asphere market by segment, 2022 & 2032 (USD Billion)
- FIG 12. Global High Precision Asphere market by segment, 2022 & 2032 (USD Billion)
- FIG 13. Global High Precision Asphere market by segment, 2022 & 2032 (USD Billion)
- FIG 14. Global High Precision Asphere market, regional snapshot 2022 & 2032
- FIG 15. North America High Precision Asphere market 2022 & 2032 (USD Billion)
- FIG 16. Europe High Precision Asphere market 2022 & 2032 (USD Billion)
- FIG 17. Asia pacific High Precision Asphere market 2022 & 2032 (USD Billion)
- FIG 18. Latin America High Precision Asphere market 2022 & 2032 (USD Billion)
- FIG 19. Middle East & Africa High Precision Asphere market 2022 & 2032 (USD Billion)
- FIG 20. Global High Precision Asphere market, company market share analysis (2023)

.....

This list is not complete, final report does contain more than 50 figures. The list may be updated in the final deliverable.

## I would like to order

Product name: Global High Precision Asphere Market Size Study, by Product Type (Glass Aspherical Lens, Plastic Aspherical Lens), by Application (Automotive, Cameras, Optical Instruments, Mobile Phones and Tablets, Others), and Regional Forecasts 2022-2032

Product link: <https://marketpublishers.com/r/G7FEDAF32AEEEN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G7FEDAF32AEEEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970