

Global Gradient Index (GRIN) Lens Fiber Collimator Market Growth 2026-2032

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Abstracts

The global Gradient Index (GRIN) Lens Fiber Collimator market size is predicted to grow from US\$ 424 million in 2025 to US\$ 963 million in 2032; it is expected to grow at a CAGR of 12.9% from 2026 to 2032.

In 2025, global production of graded index (GRIN) lens fiber collimators reached 3.64 million units, with an average selling price of US\$119 per unit. Graded-index (GRIN) lens fiber collimators are passive micro-optical devices that use graded-index lenses to transform divergent beams from the end face of an optical fiber into approximately parallel light (collimation), or to efficiently couple free-space parallel light into the optical fiber. They typically consist of a GRIN lens, ceramic/metal sheath, fiber pigtail or connector, and coating. They are small in size, easy to assemble, and cost-effective, and are widely used in optical communication and data center optical device testing, fiber optic sensing and interferometry systems, laser and amplifier coupling/isolation/combining, spectroscopic and metrological instruments, OCT and biophotonics systems, quantum/precision optics experimental platforms, and modular optical paths in industrial automation testing that require stable collimation and high coupling efficiency. The upstream of the industry chain includes GRIN lens materials (glass preforms, ion exchange to form gradients, cutting, grinding, polishing, and end-face wedge/beveling, AR/BBAR coating), optical fibers and connectors (ceramic ferrules, sleeves, pigtails), precision metal/ceramic tubing and potting compounds/low-VOC curing materials (high-reliability versions emphasize low outgassing and temperature cycling stability); the midstream consists of collimator manufacturers; and the downstream comprises optical communication equipment manufacturers, laser manufacturers, sensor system integrators, and research institutions. Gross profit margins typically range from 25% to 45%.

United States market for Gradient Index (GRIN) Lens Fiber Collimator is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Gradient Index (GRIN) Lens Fiber Collimator is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Gradient Index (GRIN) Lens Fiber Collimator is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Gradient Index (GRIN) Lens Fiber Collimator players cover Thorlabs, Newport Corporation, Laser Components, Flyin Group, Optek Systems, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Gradient Index (GRIN) Lens Fiber Collimator Industry Forecast" looks at past sales and reviews total world Gradient Index (GRIN) Lens Fiber Collimator sales in 2025, providing a comprehensive analysis by region and market sector of projected Gradient Index (GRIN) Lens Fiber Collimator sales for 2026 through 2032. With Gradient Index (GRIN) Lens Fiber Collimator sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Gradient Index (GRIN) Lens Fiber Collimator industry.

This Insight Report provides a comprehensive analysis of the global Gradient Index (GRIN) Lens Fiber Collimator landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Gradient Index (GRIN) Lens Fiber Collimator portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Gradient Index (GRIN) Lens Fiber Collimator market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Gradient Index (GRIN) Lens Fiber Collimator and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly

nanced view of the current state and future trajectory in the global Gradient Index (GRIN) Lens Fiber Collimator.

This report presents a comprehensive overview, market shares, and growth opportunities of Gradient Index (GRIN) Lens Fiber Collimator market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Fixed Focal Length

Adjustable Focal Length

Segmentation by Fiber Type:

Single-mode

Multimode

Polarization Maintaining

Segmentation by Application:

Optical Communication

Fiber Optic Sensing

Laser Processing

Scientific Research

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Thorlabs

Newport Corporation

Laser Components

Flyin Group

Optek Systems

Mightex

SQS

Edmund Optics

Brimrose Corp.

C.F.Technology (Beijing)

Key Questions Addressed in this Report

What is the 10-year outlook for the global Gradient Index (GRIN) Lens Fiber Collimator market?

What factors are driving Gradient Index (GRIN) Lens Fiber Collimator market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?
How do Gradient Index (GRIN) Lens Fiber Collimator market opportunities vary by end market size?
How does Gradient Index (GRIN) Lens Fiber Collimator break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Gradient Index (GRIN) Lens Fiber Collimator Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Gradient Index (GRIN) Lens Fiber Collimator by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Gradient Index (GRIN) Lens Fiber Collimator by Country/Region, 2021, 2025 & 2032

2.2 Gradient Index (GRIN) Lens Fiber Collimator Segment by Type

- 2.2.1 Fixed Focal Length
- 2.2.2 Adjustable Focal Length
- 2.2.3 Gradient Index (GRIN) Lens Fiber Collimator Sales by Type
 - 2.2.3.1 Global Gradient Index (GRIN) Lens Fiber Collimator Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global Gradient Index (GRIN) Lens Fiber Collimator Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global Gradient Index (GRIN) Lens Fiber Collimator Sale Price by Type (2021-2026)

2.3 Gradient Index (GRIN) Lens Fiber Collimator Segment by Fiber Type

- 2.3.1 Single-mode
- 2.3.2 Multimode
- 2.3.3 Polarization Maintaining
- 2.3.4 Gradient Index (GRIN) Lens Fiber Collimator Sales by Fiber Type
 - 2.3.4.1 Global Gradient Index (GRIN) Lens Fiber Collimator Sales Market Share by Fiber Type (2021-2026)
 - 2.3.4.2 Global Gradient Index (GRIN) Lens Fiber Collimator Revenue and Market

Share by Fiber Type (2021-2026)

2.3.4.3 Global Gradient Index (GRIN) Lens Fiber Collimator Sale Price by Fiber Type (2021-2026)

2.4 Gradient Index (GRIN) Lens Fiber Collimator Segment by Application

2.4.1 Optical Communication

2.4.2 Fiber Optic Sensing

2.4.3 Laser Processing

2.4.4 Scientific Research

2.4.5 Others

2.4.6 Gradient Index (GRIN) Lens Fiber Collimator Sales by Application

2.4.6.1 Global Gradient Index (GRIN) Lens Fiber Collimator Sale Market Share by Application (2021-2026)

2.4.6.2 Global Gradient Index (GRIN) Lens Fiber Collimator Revenue and Market Share by Application (2021-2026)

2.4.6.3 Global Gradient Index (GRIN) Lens Fiber Collimator Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Gradient Index (GRIN) Lens Fiber Collimator Breakdown Data by Company

3.1.1 Global Gradient Index (GRIN) Lens Fiber Collimator Annual Sales by Company (2021-2026)

3.1.2 Global Gradient Index (GRIN) Lens Fiber Collimator Sales Market Share by Company (2021-2026)

3.2 Global Gradient Index (GRIN) Lens Fiber Collimator Annual Revenue by Company (2021-2026)

3.2.1 Global Gradient Index (GRIN) Lens Fiber Collimator Revenue by Company (2021-2026)

3.2.2 Global Gradient Index (GRIN) Lens Fiber Collimator Revenue Market Share by Company (2021-2026)

3.3 Global Gradient Index (GRIN) Lens Fiber Collimator Sale Price by Company

3.4 Key Manufacturers Gradient Index (GRIN) Lens Fiber Collimator Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Gradient Index (GRIN) Lens Fiber Collimator Product Location Distribution

3.4.2 Players Gradient Index (GRIN) Lens Fiber Collimator Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR GRADIENT INDEX (GRIN) LENS FIBER COLLIMATOR BY GEOGRAPHIC REGION

- 4.1 World Historic Gradient Index (GRIN) Lens Fiber Collimator Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Gradient Index (GRIN) Lens Fiber Collimator Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Gradient Index (GRIN) Lens Fiber Collimator Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Gradient Index (GRIN) Lens Fiber Collimator Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Gradient Index (GRIN) Lens Fiber Collimator Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Gradient Index (GRIN) Lens Fiber Collimator Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Gradient Index (GRIN) Lens Fiber Collimator Sales Growth
- 4.4 APAC Gradient Index (GRIN) Lens Fiber Collimator Sales Growth
- 4.5 Europe Gradient Index (GRIN) Lens Fiber Collimator Sales Growth
- 4.6 Middle East & Africa Gradient Index (GRIN) Lens Fiber Collimator Sales Growth

5 AMERICAS

- 5.1 Americas Gradient Index (GRIN) Lens Fiber Collimator Sales by Country
 - 5.1.1 Americas Gradient Index (GRIN) Lens Fiber Collimator Sales by Country (2021-2026)
 - 5.1.2 Americas Gradient Index (GRIN) Lens Fiber Collimator Revenue by Country (2021-2026)
- 5.2 Americas Gradient Index (GRIN) Lens Fiber Collimator Sales by Type (2021-2026)
- 5.3 Americas Gradient Index (GRIN) Lens Fiber Collimator Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

6.1 APAC Gradient Index (GRIN) Lens Fiber Collimator Sales by Region

6.1.1 APAC Gradient Index (GRIN) Lens Fiber Collimator Sales by Region
(2021-2026)

6.1.2 APAC Gradient Index (GRIN) Lens Fiber Collimator Revenue by Region
(2021-2026)

6.2 APAC Gradient Index (GRIN) Lens Fiber Collimator Sales by Type (2021-2026)

6.3 APAC Gradient Index (GRIN) Lens Fiber Collimator Sales by Application
(2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Gradient Index (GRIN) Lens Fiber Collimator by Country

7.1.1 Europe Gradient Index (GRIN) Lens Fiber Collimator Sales by Country
(2021-2026)

7.1.2 Europe Gradient Index (GRIN) Lens Fiber Collimator Revenue by Country
(2021-2026)

7.2 Europe Gradient Index (GRIN) Lens Fiber Collimator Sales by Type (2021-2026)

7.3 Europe Gradient Index (GRIN) Lens Fiber Collimator Sales by Application
(2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Gradient Index (GRIN) Lens Fiber Collimator by Country

8.1.1 Middle East & Africa Gradient Index (GRIN) Lens Fiber Collimator Sales by
Country (2021-2026)

8.1.2 Middle East & Africa Gradient Index (GRIN) Lens Fiber Collimator Revenue by

Country (2021-2026)

8.2 Middle East & Africa Gradient Index (GRIN) Lens Fiber Collimator Sales by Type (2021-2026)

8.3 Middle East & Africa Gradient Index (GRIN) Lens Fiber Collimator Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Gradient Index (GRIN) Lens Fiber Collimator

10.3 Manufacturing Process Analysis of Gradient Index (GRIN) Lens Fiber Collimator

10.4 Industry Chain Structure of Gradient Index (GRIN) Lens Fiber Collimator

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Gradient Index (GRIN) Lens Fiber Collimator Distributors

11.3 Gradient Index (GRIN) Lens Fiber Collimator Customer

12 WORLD FORECAST REVIEW FOR GRADIENT INDEX (GRIN) LENS FIBER COLLIMATOR BY GEOGRAPHIC REGION

12.1 Global Gradient Index (GRIN) Lens Fiber Collimator Market Size Forecast by Region

12.1.1 Global Gradient Index (GRIN) Lens Fiber Collimator Forecast by Region

(2027-2032)

12.1.2 Global Gradient Index (GRIN) Lens Fiber Collimator Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Gradient Index (GRIN) Lens Fiber Collimator Forecast by Type (2027-2032)

12.7 Global Gradient Index (GRIN) Lens Fiber Collimator Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Thorlabs

13.1.1 Thorlabs Company Information

13.1.2 Thorlabs Gradient Index (GRIN) Lens Fiber Collimator Product Portfolios and Specifications

13.1.3 Thorlabs Gradient Index (GRIN) Lens Fiber Collimator Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Thorlabs Main Business Overview

13.1.5 Thorlabs Latest Developments

13.2 Newport Corporation

13.2.1 Newport Corporation Company Information

13.2.2 Newport Corporation Gradient Index (GRIN) Lens Fiber Collimator Product Portfolios and Specifications

13.2.3 Newport Corporation Gradient Index (GRIN) Lens Fiber Collimator Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Newport Corporation Main Business Overview

13.2.5 Newport Corporation Latest Developments

13.3 Laser Components

13.3.1 Laser Components Company Information

13.3.2 Laser Components Gradient Index (GRIN) Lens Fiber Collimator Product Portfolios and Specifications

13.3.3 Laser Components Gradient Index (GRIN) Lens Fiber Collimator Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Laser Components Main Business Overview

13.3.5 Laser Components Latest Developments

13.4 Flyin Group

13.4.1 Flyin Group Company Information

13.4.2 Flyin Group Gradient Index (GRIN) Lens Fiber Collimator Product Portfolios and Specifications

13.4.3 Flyin Group Gradient Index (GRIN) Lens Fiber Collimator Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Flyin Group Main Business Overview

13.4.5 Flyin Group Latest Developments

13.5 Optek Systems

13.5.1 Optek Systems Company Information

13.5.2 Optek Systems Gradient Index (GRIN) Lens Fiber Collimator Product Portfolios and Specifications

13.5.3 Optek Systems Gradient Index (GRIN) Lens Fiber Collimator Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Optek Systems Main Business Overview

13.5.5 Optek Systems Latest Developments

13.6 Mightex

13.6.1 Mightex Company Information

13.6.2 Mightex Gradient Index (GRIN) Lens Fiber Collimator Product Portfolios and Specifications

13.6.3 Mightex Gradient Index (GRIN) Lens Fiber Collimator Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Mightex Main Business Overview

13.6.5 Mightex Latest Developments

13.7 SQS

13.7.1 SQS Company Information

13.7.2 SQS Gradient Index (GRIN) Lens Fiber Collimator Product Portfolios and Specifications

13.7.3 SQS Gradient Index (GRIN) Lens Fiber Collimator Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 SQS Main Business Overview

13.7.5 SQS Latest Developments

13.8 Edmund Optics

13.8.1 Edmund Optics Company Information

13.8.2 Edmund Optics Gradient Index (GRIN) Lens Fiber Collimator Product Portfolios and Specifications

13.8.3 Edmund Optics Gradient Index (GRIN) Lens Fiber Collimator Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Edmund Optics Main Business Overview

13.8.5 Edmund Optics Latest Developments

13.9 Brimrose Corp.

- 13.9.1 Brimrose Corp. Company Information
- 13.9.2 Brimrose Corp. Gradient Index (GRIN) Lens Fiber Collimator Product Portfolios and Specifications
- 13.9.3 Brimrose Corp. Gradient Index (GRIN) Lens Fiber Collimator Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.9.4 Brimrose Corp. Main Business Overview
- 13.9.5 Brimrose Corp. Latest Developments
- 13.10 C.F.Technology (Beijing)
 - 13.10.1 C.F.Technology (Beijing) Company Information
 - 13.10.2 C.F.Technology (Beijing) Gradient Index (GRIN) Lens Fiber Collimator Product Portfolios and Specifications
 - 13.10.3 C.F.Technology (Beijing) Gradient Index (GRIN) Lens Fiber Collimator Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 C.F.Technology (Beijing) Main Business Overview
 - 13.10.5 C.F.Technology (Beijing) Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. Gradient Index (GRIN) Lens Fiber Collimator Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Table 2. Gradient Index (GRIN) Lens Fiber Collimator Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of Fixed Focal Length
- Table 4. Major Players of Adjustable Focal Length
- Table 5. Global Gradient Index (GRIN) Lens Fiber Collimator Sales by Type (2021-2026) & (K Units)
- Table 6. Global Gradient Index (GRIN) Lens Fiber Collimator Sales Market Share by Type (2021-2026)
- Table 7. Global Gradient Index (GRIN) Lens Fiber Collimator Revenue by Type (2021-2026) & (\$ million)
- Table 8. Global Gradient Index (GRIN) Lens Fiber Collimator Revenue Market Share by Type (2021-2026)
- Table 9. Global Gradient Index (GRIN) Lens Fiber Collimator Sale Price by Type (2021-2026) & (US\$/Unit)
- Table 10. Major Players of Single-mode
- Table 11. Major Players of Multimode
- Table 12. Major Players of Polarization Maintaining
- Table 13. Global Gradient Index (GRIN) Lens Fiber Collimator Sales by Fiber Type (2021-2026) & (K Units)
- Table 14. Global Gradient Index (GRIN) Lens Fiber Collimator Sales Market Share by Fiber Type (2021-2026)
- Table 15. Global Gradient Index (GRIN) Lens Fiber Collimator Revenue by Fiber Type (2021-2026) & (\$ million)
- Table 16. Global Gradient Index (GRIN) Lens Fiber Collimator Revenue Market Share by Fiber Type (2021-2026)
- Table 17. Global Gradient Index (GRIN) Lens Fiber Collimator Sale Price by Fiber Type (2021-2026) & (US\$/Unit)
- Table 18. Global Gradient Index (GRIN) Lens Fiber Collimator Sale by Application (2021-2026) & (K Units)
- Table 19. Global Gradient Index (GRIN) Lens Fiber Collimator Sale Market Share by Application (2021-2026)
- Table 20. Global Gradient Index (GRIN) Lens Fiber Collimator Revenue by Application (2021-2026) & (\$ million)

Table 21. Global Gradient Index (GRIN) Lens Fiber Collimator Revenue Market Share by Application (2021-2026)

Table 22. Global Gradient Index (GRIN) Lens Fiber Collimator Sale Price by Application (2021-2026) & (US\$/Unit)

Table 23. Global Gradient Index (GRIN) Lens Fiber Collimator Sales by Company (2021-2026) & (K Units)

Table 24. Global Gradient Index (GRIN) Lens Fiber Collimator Sales Market Share by Company (2021-2026)

Table 25. Global Gradient Index (GRIN) Lens Fiber Collimator Revenue by Company (2021-2026) & (\$ millions)

Table 26. Global Gradient Index (GRIN) Lens Fiber Collimator Revenue Market Share by Company (2021-2026)

Table 27. Global Gradient Index (GRIN) Lens Fiber Collimator Sale Price by Company (2021-2026) & (US\$/Unit)

Table 28. Key Manufacturers Gradient Index (GRIN) Lens Fiber Collimator Producing Area Distribution and Sales Area

Table 29. Players Gradient Index (GRIN) Lens Fiber Collimator Products Offered

Table 30. Gradient Index (GRIN) Lens Fiber Collimator Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 31. New Products and Potential Entrants

Table 32. Market M&A Activity & Strategy

Table 33. Global Gradient Index (GRIN) Lens Fiber Collimator Sales by Geographic Region (2021-2026) & (K Units)

Table 34. Global Gradient Index (GRIN) Lens Fiber Collimator Sales Market Share Geographic Region (2021-2026)

Table 35. Global Gradient Index (GRIN) Lens Fiber Collimator Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 36. Global Gradient Index (GRIN) Lens Fiber Collimator Revenue Market Share by Geographic Region (2021-2026)

Table 37. Global Gradient Index (GRIN) Lens Fiber Collimator Sales by Country/Region (2021-2026) & (K Units)

Table 38. Global Gradient Index (GRIN) Lens Fiber Collimator Sales Market Share by Country/Region (2021-2026)

Table 39. Global Gradient Index (GRIN) Lens Fiber Collimator Revenue by Country/Region (2021-2026) & (\$ millions)

Table 40. Global Gradient Index (GRIN) Lens Fiber Collimator Revenue Market Share by Country/Region (2021-2026)

Table 41. Americas Gradient Index (GRIN) Lens Fiber Collimator Sales by Country (2021-2026) & (K Units)

Table 42. Americas Gradient Index (GRIN) Lens Fiber Collimator Sales Market Share by Country (2021-2026)

Table 43. Americas Gradient Index (GRIN) Lens Fiber Collimator Revenue by Country (2021-2026) & (\$ millions)

Table 44. Americas Gradient Index (GRIN) Lens Fiber Collimator Sales by Type (2021-2026) & (K Units)

Table 45. Americas Gradient Index (GRIN) Lens Fiber Collimator Sales by Application (2021-2026) & (K Units)

Table 46. APAC Gradient Index (GRIN) Lens Fiber Collimator Sales by Region (2021-2026) & (K Units)

Table 47. APAC Gradient Index (GRIN) Lens Fiber Collimator Sales Market Share by Region (2021-2026)

Table 48. APAC Gradient Index (GRIN) Lens Fiber Collimator Revenue by Region (2021-2026) & (\$ millions)

Table 49. APAC Gradient Index (GRIN) Lens Fiber Collimator Sales by Type (2021-2026) & (K Units)

Table 50. APAC Gradient Index (GRIN) Lens Fiber Collimator Sales by Application (2021-2026) & (K Units)

Table 51. Europe Gradient Index (GRIN) Lens Fiber Collimator Sales by Country (2021-2026) & (K Units)

Table 52. Europe Gradient Index (GRIN) Lens Fiber Collimator Revenue by Country (2021-2026) & (\$ millions)

Table 53. Europe Gradient Index (GRIN) Lens Fiber Collimator Sales by Type (2021-2026) & (K Units)

Table 54. Europe Gradient Index (GRIN) Lens Fiber Collimator Sales by Application (2021-2026) & (K Units)

Table 55. Middle East & Africa Gradient Index (GRIN) Lens Fiber Collimator Sales by Country (2021-2026) & (K Units)

Table 56. Middle East & Africa Gradient Index (GRIN) Lens Fiber Collimator Revenue Market Share by Country (2021-2026)

Table 57. Middle East & Africa Gradient Index (GRIN) Lens Fiber Collimator Sales by Type (2021-2026) & (K Units)

Table 58. Middle East & Africa Gradient Index (GRIN) Lens Fiber Collimator Sales by Application (2021-2026) & (K Units)

Table 59. Key Market Drivers & Growth Opportunities of Gradient Index (GRIN) Lens Fiber Collimator

Table 60. Key Market Challenges & Risks of Gradient Index (GRIN) Lens Fiber Collimator

Table 61. Key Industry Trends of Gradient Index (GRIN) Lens Fiber Collimator

- Table 62. Gradient Index (GRIN) Lens Fiber Collimator Raw Material
- Table 63. Key Suppliers of Raw Materials
- Table 64. Gradient Index (GRIN) Lens Fiber Collimator Distributors List
- Table 65. Gradient Index (GRIN) Lens Fiber Collimator Customer List
- Table 66. Global Gradient Index (GRIN) Lens Fiber Collimator Sales Forecast by Region (2027-2032) & (K Units)
- Table 67. Global Gradient Index (GRIN) Lens Fiber Collimator Revenue Forecast by Region (2027-2032) & (\$ millions)
- Table 68. Americas Gradient Index (GRIN) Lens Fiber Collimator Sales Forecast by Country (2027-2032) & (K Units)
- Table 69. Americas Gradient Index (GRIN) Lens Fiber Collimator Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 70. APAC Gradient Index (GRIN) Lens Fiber Collimator Sales Forecast by Region (2027-2032) & (K Units)
- Table 71. APAC Gradient Index (GRIN) Lens Fiber Collimator Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
- Table 72. Europe Gradient Index (GRIN) Lens Fiber Collimator Sales Forecast by Country (2027-2032) & (K Units)
- Table 73. Europe Gradient Index (GRIN) Lens Fiber Collimator Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 74. Middle East & Africa Gradient Index (GRIN) Lens Fiber Collimator Sales Forecast by Country (2027-2032) & (K Units)
- Table 75. Middle East & Africa Gradient Index (GRIN) Lens Fiber Collimator Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 76. Global Gradient Index (GRIN) Lens Fiber Collimator Sales Forecast by Type (2027-2032) & (K Units)
- Table 77. Global Gradient Index (GRIN) Lens Fiber Collimator Revenue Forecast by Type (2027-2032) & (\$ millions)
- Table 78. Global Gradient Index (GRIN) Lens Fiber Collimator Sales Forecast by Application (2027-2032) & (K Units)
- Table 79. Global Gradient Index (GRIN) Lens Fiber Collimator Revenue Forecast by Application (2027-2032) & (\$ millions)
- Table 80. Thorlabs Basic Information, Gradient Index (GRIN) Lens Fiber Collimator Manufacturing Base, Sales Area and Its Competitors
- Table 81. Thorlabs Gradient Index (GRIN) Lens Fiber Collimator Product Portfolios and Specifications
- Table 82. Thorlabs Gradient Index (GRIN) Lens Fiber Collimator Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 83. Thorlabs Main Business

Table 84. Thorlabs Latest Developments

Table 85. Newport Corporation Basic Information, Gradient Index (GRIN) Lens Fiber Collimator Manufacturing Base, Sales Area and Its Competitors

Table 86. Newport Corporation Gradient Index (GRIN) Lens Fiber Collimator Product Portfolios and Specifications

Table 87. Newport Corporation Gradient Index (GRIN) Lens Fiber Collimator Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 88. Newport Corporation Main Business

Table 89. Newport Corporation Latest Developments

Table 90. Laser Components Basic Information, Gradient Index (GRIN) Lens Fiber Collimator Manufacturing Base, Sales Area and Its Competitors

Table 91. Laser Components Gradient Index (GRIN) Lens Fiber Collimator Product Portfolios and Specifications

Table 92. Laser Components Gradient Index (GRIN) Lens Fiber Collimator Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 93. Laser Components Main Business

Table 94. Laser Components Latest Developments

Table 95. Flyin Group Basic Information, Gradient Index (GRIN) Lens Fiber Collimator Manufacturing Base, Sales Area and Its Competitors

Table 96. Flyin Group Gradient Index (GRIN) Lens Fiber Collimator Product Portfolios and Specifications

Table 97. Flyin Group Gradient Index (GRIN) Lens Fiber Collimator Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 98. Flyin Group Main Business

Table 99. Flyin Group Latest Developments

Table 100. Optek Systems Basic Information, Gradient Index (GRIN) Lens Fiber Collimator Manufacturing Base, Sales Area and Its Competitors

Table 101. Optek Systems Gradient Index (GRIN) Lens Fiber Collimator Product Portfolios and Specifications

Table 102. Optek Systems Gradient Index (GRIN) Lens Fiber Collimator Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 103. Optek Systems Main Business

Table 104. Optek Systems Latest Developments

Table 105. Mightex Basic Information, Gradient Index (GRIN) Lens Fiber Collimator Manufacturing Base, Sales Area and Its Competitors

Table 106. Mightex Gradient Index (GRIN) Lens Fiber Collimator Product Portfolios and Specifications

Table 107. Mightex Gradient Index (GRIN) Lens Fiber Collimator Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 108. Mightex Main Business

Table 109. Mightex Latest Developments

Table 110. SQS Basic Information, Gradient Index (GRIN) Lens Fiber Collimator Manufacturing Base, Sales Area and Its Competitors

Table 111. SQS Gradient Index (GRIN) Lens Fiber Collimator Product Portfolios and Specifications

Table 112. SQS Gradient Index (GRIN) Lens Fiber Collimator Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 113. SQS Main Business

Table 114. SQS Latest Developments

Table 115. Edmund Optics Basic Information, Gradient Index (GRIN) Lens Fiber Collimator Manufacturing Base, Sales Area and Its Competitors

Table 116. Edmund Optics Gradient Index (GRIN) Lens Fiber Collimator Product Portfolios and Specifications

Table 117. Edmund Optics Gradient Index (GRIN) Lens Fiber Collimator Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 118. Edmund Optics Main Business

Table 119. Edmund Optics Latest Developments

Table 120. Brimrose Corp. Basic Information, Gradient Index (GRIN) Lens Fiber Collimator Manufacturing Base, Sales Area and Its Competitors

Table 121. Brimrose Corp. Gradient Index (GRIN) Lens Fiber Collimator Product Portfolios and Specifications

Table 122. Brimrose Corp. Gradient Index (GRIN) Lens Fiber Collimator Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 123. Brimrose Corp. Main Business

Table 124. Brimrose Corp. Latest Developments

Table 125. C.F.Technology (Beijing) Basic Information, Gradient Index (GRIN) Lens Fiber Collimator Manufacturing Base, Sales Area and Its Competitors

Table 126. C.F.Technology (Beijing) Gradient Index (GRIN) Lens Fiber Collimator Product Portfolios and Specifications

Table 127. C.F.Technology (Beijing) Gradient Index (GRIN) Lens Fiber Collimator Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 128. C.F.Technology (Beijing) Main Business

Table 129. C.F.Technology (Beijing) Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Gradient Index (GRIN) Lens Fiber Collimator
- Figure 2. Gradient Index (GRIN) Lens Fiber Collimator Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Gradient Index (GRIN) Lens Fiber Collimator Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global Gradient Index (GRIN) Lens Fiber Collimator Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Gradient Index (GRIN) Lens Fiber Collimator Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Gradient Index (GRIN) Lens Fiber Collimator Sales Market Share by Country/Region (2025)
- Figure 10. Gradient Index (GRIN) Lens Fiber Collimator Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Fixed Focal Length
- Figure 12. Product Picture of Adjustable Focal Length
- Figure 13. Global Gradient Index (GRIN) Lens Fiber Collimator Sales Market Share by Type in 2026
- Figure 14. Global Gradient Index (GRIN) Lens Fiber Collimator Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of Single-mode
- Figure 16. Product Picture of Multimode
- Figure 17. Product Picture of Polarization Maintaining
- Figure 18. Global Gradient Index (GRIN) Lens Fiber Collimator Sales Market Share by Fiber Type in 2026
- Figure 19. Global Gradient Index (GRIN) Lens Fiber Collimator Revenue Market Share by Fiber Type (2021-2026)
- Figure 20. Gradient Index (GRIN) Lens Fiber Collimator Consumed in Optical Communication
- Figure 21. Global Gradient Index (GRIN) Lens Fiber Collimator Market: Optical Communication (2021-2026) & (K Units)
- Figure 22. Gradient Index (GRIN) Lens Fiber Collimator Consumed in Fiber Optic Sensing
- Figure 23. Global Gradient Index (GRIN) Lens Fiber Collimator Market: Fiber Optic

Sensing (2021-2026) & (K Units)

Figure 24. Gradient Index (GRIN) Lens Fiber Collimator Consumed in Laser Processing

Figure 25. Global Gradient Index (GRIN) Lens Fiber Collimator Market: Laser Processing (2021-2026) & (K Units)

Figure 26. Gradient Index (GRIN) Lens Fiber Collimator Consumed in Scientific Research

Figure 27. Global Gradient Index (GRIN) Lens Fiber Collimator Market: Scientific Research (2021-2026) & (K Units)

Figure 28. Gradient Index (GRIN) Lens Fiber Collimator Consumed in Others

Figure 29. Global Gradient Index (GRIN) Lens Fiber Collimator Market: Others (2021-2026) & (K Units)

Figure 30. Global Gradient Index (GRIN) Lens Fiber Collimator Sale Market Share by Application (2025)

Figure 31. Global Gradient Index (GRIN) Lens Fiber Collimator Revenue Market Share by Application in 2026

Figure 32. Gradient Index (GRIN) Lens Fiber Collimator Sales by Company in 2026 (K Units)

Figure 33. Global Gradient Index (GRIN) Lens Fiber Collimator Sales Market Share by Company in 2026

Figure 34. Gradient Index (GRIN) Lens Fiber Collimator Revenue by Company in 2026 (\$ millions)

Figure 35. Global Gradient Index (GRIN) Lens Fiber Collimator Revenue Market Share by Company in 2026

Figure 36. Global Gradient Index (GRIN) Lens Fiber Collimator Sales Market Share by Geographic Region (2021-2026)

Figure 37. Global Gradient Index (GRIN) Lens Fiber Collimator Revenue Market Share by Geographic Region in 2026

Figure 38. Americas Gradient Index (GRIN) Lens Fiber Collimator Sales 2021-2026 (K Units)

Figure 39. Americas Gradient Index (GRIN) Lens Fiber Collimator Revenue 2021-2026 (\$ millions)

Figure 40. APAC Gradient Index (GRIN) Lens Fiber Collimator Sales 2021-2026 (K Units)

Figure 41. APAC Gradient Index (GRIN) Lens Fiber Collimator Revenue 2021-2026 (\$ millions)

Figure 42. Europe Gradient Index (GRIN) Lens Fiber Collimator Sales 2021-2026 (K Units)

Figure 43. Europe Gradient Index (GRIN) Lens Fiber Collimator Revenue 2021-2026 (\$ millions)

Figure 44. Middle East & Africa Gradient Index (GRIN) Lens Fiber Collimator Sales 2021-2026 (K Units)

Figure 45. Middle East & Africa Gradient Index (GRIN) Lens Fiber Collimator Revenue 2021-2026 (\$ millions)

Figure 46. Americas Gradient Index (GRIN) Lens Fiber Collimator Sales Market Share by Country in 2026

Figure 47. Americas Gradient Index (GRIN) Lens Fiber Collimator Revenue Market Share by Country (2021-2026)

Figure 48. Americas Gradient Index (GRIN) Lens Fiber Collimator Sales Market Share by Type (2021-2026)

Figure 49. Americas Gradient Index (GRIN) Lens Fiber Collimator Sales Market Share by Application (2021-2026)

Figure 50. United States Gradient Index (GRIN) Lens Fiber Collimator Revenue Growth 2021-2026 (\$ millions)

Figure 51. Canada Gradient Index (GRIN) Lens Fiber Collimator Revenue Growth 2021-2026 (\$ millions)

Figure 52. Mexico Gradient Index (GRIN) Lens Fiber Collimator Revenue Growth 2021-2026 (\$ millions)

Figure 53. Brazil Gradient Index (GRIN) Lens Fiber Collimator Revenue Growth 2021-2026 (\$ millions)

Figure 54. APAC Gradient Index (GRIN) Lens Fiber Collimator Sales Market Share by Region in 2026

Figure 55. APAC Gradient Index (GRIN) Lens Fiber Collimator Revenue Market Share by Region (2021-2026)

Figure 56. APAC Gradient Index (GRIN) Lens Fiber Collimator Sales Market Share by Type (2021-2026)

Figure 57. APAC Gradient Index (GRIN) Lens Fiber Collimator Sales Market Share by Application (2021-2026)

Figure 58. China Gradient Index (GRIN) Lens Fiber Collimator Revenue Growth 2021-2026 (\$ millions)

Figure 59. Japan Gradient Index (GRIN) Lens Fiber Collimator Revenue Growth 2021-2026 (\$ millions)

Figure 60. South Korea Gradient Index (GRIN) Lens Fiber Collimator Revenue Growth 2021-2026 (\$ millions)

Figure 61. Southeast Asia Gradient Index (GRIN) Lens Fiber Collimator Revenue Growth 2021-2026 (\$ millions)

Figure 62. India Gradient Index (GRIN) Lens Fiber Collimator Revenue Growth 2021-2026 (\$ millions)

Figure 63. Australia Gradient Index (GRIN) Lens Fiber Collimator Revenue Growth

2021-2026 (\$ millions)

Figure 64. China Taiwan Gradient Index (GRIN) Lens Fiber Collimator Revenue Growth 2021-2026 (\$ millions)

Figure 65. Europe Gradient Index (GRIN) Lens Fiber Collimator Sales Market Share by Country in 2026

Figure 66. Europe Gradient Index (GRIN) Lens Fiber Collimator Revenue Market Share by Country (2021-2026)

Figure 67. Europe Gradient Index (GRIN) Lens Fiber Collimator Sales Market Share by Type (2021-2026)

Figure 68. Europe Gradient Index (GRIN) Lens Fiber Collimator Sales Market Share by Application (2021-2026)

Figure 69. Germany Gradient Index (GRIN) Lens Fiber Collimator Revenue Growth 2021-2026 (\$ millions)

Figure 70. France Gradient Index (GRIN) Lens Fiber Collimator Revenue Growth 2021-2026 (\$ millions)

Figure 71. UK Gradient Index (GRIN) Lens Fiber Collimator Revenue Growth 2021-2026 (\$ millions)

Figure 72. Italy Gradient Index (GRIN) Lens Fiber Collimator Revenue Growth 2021-2026 (\$ millions)

Figure 73. Russia Gradient Index (GRIN) Lens Fiber Collimator Revenue Growth 2021-2026 (\$ millions)

Figure 74. Middle East & Africa Gradient Index (GRIN) Lens Fiber Collimator Sales Market Share by Country (2021-2026)

Figure 75. Middle East & Africa Gradient Index (GRIN) Lens Fiber Collimator Sales Market Share by Type (2021-2026)

Figure 76. Middle East & Africa Gradient Index (GRIN) Lens Fiber Collimator Sales Market Share by Application (2021-2026)

Figure 77. Egypt Gradient Index (GRIN) Lens Fiber Collimator Revenue Growth 2021-2026 (\$ millions)

Figure 78. South Africa Gradient Index (GRIN) Lens Fiber Collimator Revenue Growth 2021-2026 (\$ millions)

Figure 79. Israel Gradient Index (GRIN) Lens Fiber Collimator Revenue Growth 2021-2026 (\$ millions)

Figure 80. Turkey Gradient Index (GRIN) Lens Fiber Collimator Revenue Growth 2021-2026 (\$ millions)

Figure 81. GCC Countries Gradient Index (GRIN) Lens Fiber Collimator Revenue Growth 2021-2026 (\$ millions)

Figure 82. Manufacturing Cost Structure Analysis of Gradient Index (GRIN) Lens Fiber Collimator in 2026

Figure 83. Manufacturing Process Analysis of Gradient Index (GRIN) Lens Fiber Collimator

Figure 84. Industry Chain Structure of Gradient Index (GRIN) Lens Fiber Collimator

Figure 85. Channels of Distribution

Figure 86. Global Gradient Index (GRIN) Lens Fiber Collimator Sales Market Forecast by Region (2027-2032)

Figure 87. Global Gradient Index (GRIN) Lens Fiber Collimator Revenue Market Share Forecast by Region (2027-2032)

Figure 88. Global Gradient Index (GRIN) Lens Fiber Collimator Sales Market Share Forecast by Type (2027-2032)

Figure 89. Global Gradient Index (GRIN) Lens Fiber Collimator Revenue Market Share Forecast by Type (2027-2032)

Figure 90. Global Gradient Index (GRIN) Lens Fiber Collimator Sales Market Share Forecast by Application (2027-2032)

Figure 91. Global Gradient Index (GRIN) Lens Fiber Collimator Revenue Market Share Forecast by Application (2027-2032)

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