

# Global GRIN Fiber Collimator Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global GRIN Fiber Collimator market size is expected to reach \$ 973 million by 2032, rising at a market growth of 12.1% CAGR during the forecast period (2026-2032).

Global production of GRIN fiber collimators reached 3.64 million units in 2025, with an average selling price of US\$119 per unit. A GRIN fiber collimator is a passive micro-optical device that uses a graded-index lens to transform a diverging beam from the end face of an optical fiber into approximately parallel light (collimation), or to efficiently couple free-space parallel light into an optical fiber. It typically consists of a GRIN lens, a ceramic/metal sleeve, an optical fiber pigtail or connector, and a coating. It is small in size, easy to assemble, and cost-effective, and is 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%.

This report studies the global GRIN Fiber Collimator production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for GRIN Fiber Collimator 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 GRIN Fiber Collimator that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global GRIN Fiber Collimator total production and demand, 2021-2032, (K Units)

Global GRIN Fiber Collimator total production value, 2021-2032, (USD Million)

Global GRIN Fiber Collimator production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global GRIN Fiber Collimator consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: GRIN Fiber Collimator domestic production, consumption, key domestic manufacturers and share

Global GRIN Fiber Collimator production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global GRIN Fiber Collimator production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global GRIN Fiber Collimator production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global GRIN Fiber Collimator 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 Thorlabs, Newport Corporation, Laser Components, Flyin Group, Optek Systems, Mightex, SQS, Edmund Optics, Brimrose Corp., C.F.Technology (Beijing), 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 GRIN Fiber Collimator market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (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 GRIN Fiber Collimator Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global GRIN Fiber Collimator Market, Segmentation by Type:

Fixed Focal Length

Adjustable Focal Length

## Global GRIN Fiber Collimator Market, Segmentation by Fiber Type:

Single-mode

Multimode

Polarization Maintaining

## Global GRIN Fiber Collimator Market, Segmentation by Application:

Optical Communication

Fiber Optic Sensing

Laser Processing

Scientific Research

Others

## Companies Profiled:

Thorlabs

Newport Corporation

Laser Components

Flyin Group

Optek Systems

Mightex

SQS

Edmund Optics

Brimrose Corp.

C.F.Technology (Beijing)

Key Questions Answered:

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

## Contents

### 1 SUPPLY SUMMARY

- 1.1 GRIN Fiber Collimator Introduction
- 1.2 World GRIN Fiber Collimator Supply & Forecast
  - 1.2.1 World GRIN Fiber Collimator Production Value (2021 & 2025 & 2032)
  - 1.2.2 World GRIN Fiber Collimator Production (2021-2032)
  - 1.2.3 World GRIN Fiber Collimator Pricing Trends (2021-2032)
- 1.3 World GRIN Fiber Collimator Production by Region (Based on Production Site)
  - 1.3.1 World GRIN Fiber Collimator Production Value by Region (2021-2032)
  - 1.3.2 World GRIN Fiber Collimator Production by Region (2021-2032)
  - 1.3.3 World GRIN Fiber Collimator Average Price by Region (2021-2032)
  - 1.3.4 North America GRIN Fiber Collimator Production (2021-2032)
  - 1.3.5 Europe GRIN Fiber Collimator Production (2021-2032)
  - 1.3.6 China GRIN Fiber Collimator Production (2021-2032)
  - 1.3.7 Japan GRIN Fiber Collimator Production (2021-2032)
  - 1.3.8 South Korea GRIN Fiber Collimator Production (2021-2032)
  - 1.3.9 Southeast Asia GRIN Fiber Collimator Production (2021-2032)
  - 1.3.10 China Taiwan GRIN Fiber Collimator Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 GRIN Fiber Collimator Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 GRIN Fiber Collimator Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World GRIN Fiber Collimator Demand (2021-2032)
- 2.2 World GRIN Fiber Collimator Consumption by Region
  - 2.2.1 World GRIN Fiber Collimator Consumption by Region (2021-2026)
  - 2.2.2 World GRIN Fiber Collimator Consumption Forecast by Region (2027-2032)
- 2.3 United States GRIN Fiber Collimator Consumption (2021-2032)
- 2.4 China GRIN Fiber Collimator Consumption (2021-2032)
- 2.5 Europe GRIN Fiber Collimator Consumption (2021-2032)
- 2.6 Japan GRIN Fiber Collimator Consumption (2021-2032)
- 2.7 South Korea GRIN Fiber Collimator Consumption (2021-2032)
- 2.8 ASEAN GRIN Fiber Collimator Consumption (2021-2032)
- 2.9 India GRIN Fiber Collimator Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

- 3.1 World GRIN Fiber Collimator Production Value by Manufacturer (2021-2026)
- 3.2 World GRIN Fiber Collimator Production by Manufacturer (2021-2026)
- 3.3 World GRIN Fiber Collimator Average Price by Manufacturer (2021-2026)
- 3.4 GRIN Fiber Collimator Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global GRIN Fiber Collimator Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for GRIN Fiber Collimator in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for GRIN Fiber Collimator in 2025
- 3.6 GRIN Fiber Collimator Market: Overall Company Footprint Analysis
  - 3.6.1 GRIN Fiber Collimator Market: Region Footprint
  - 3.6.2 GRIN Fiber Collimator Market: Company Product Type Footprint
  - 3.6.3 GRIN Fiber Collimator 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: GRIN Fiber Collimator Production Value Comparison
  - 4.1.1 United States VS China: GRIN Fiber Collimator Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: GRIN Fiber Collimator Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: GRIN Fiber Collimator Production Comparison
  - 4.2.1 United States VS China: GRIN Fiber Collimator Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: GRIN Fiber Collimator Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: GRIN Fiber Collimator Consumption Comparison
  - 4.3.1 United States VS China: GRIN Fiber Collimator Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: GRIN Fiber Collimator Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based GRIN Fiber Collimator Manufacturers and Market Share,

## 2021-2026

4.4.1 United States Based GRIN Fiber Collimator Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers GRIN Fiber Collimator Production Value (2021-2026)

4.4.3 United States Based Manufacturers GRIN Fiber Collimator Production (2021-2026)

4.5 China Based GRIN Fiber Collimator Manufacturers and Market Share

4.5.1 China Based GRIN Fiber Collimator Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers GRIN Fiber Collimator Production Value (2021-2026)

4.5.3 China Based Manufacturers GRIN Fiber Collimator Production (2021-2026)

4.6 Rest of World Based GRIN Fiber Collimator Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based GRIN Fiber Collimator Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers GRIN Fiber Collimator Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers GRIN Fiber Collimator Production (2021-2026)

## 5 MARKET ANALYSIS BY TYPE

5.1 World GRIN Fiber Collimator Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Fixed Focal Length

5.2.2 Adjustable Focal Length

5.3 Market Segment by Type

5.3.1 World GRIN Fiber Collimator Production by Type (2021-2032)

5.3.2 World GRIN Fiber Collimator Production Value by Type (2021-2032)

5.3.3 World GRIN Fiber Collimator Average Price by Type (2021-2032)

## 6 MARKET ANALYSIS BY FIBER TYPE

6.1 World GRIN Fiber Collimator Market Size Overview by Fiber Type: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Fiber Type

- 6.2.1 Single-mode
- 6.2.2 Multimode
- 6.2.3 Polarization Maintaining
- 6.3 Market Segment by Fiber Type
  - 6.3.1 World GRIN Fiber Collimator Production by Fiber Type (2021-2032)
  - 6.3.2 World GRIN Fiber Collimator Production Value by Fiber Type (2021-2032)
  - 6.3.3 World GRIN Fiber Collimator Average Price by Fiber Type (2021-2032)

## **7 MARKET ANALYSIS BY APPLICATION**

- 7.1 World GRIN Fiber Collimator Market Size Overview by Application: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Application
  - 7.2.1 Optical Communication
  - 7.2.2 Fiber Optic Sensing
  - 7.2.3 Laser Processing
  - 7.2.4 Scientific Research
  - 7.2.5 Others
- 7.3 Market Segment by Application
  - 7.3.1 World GRIN Fiber Collimator Production by Application (2021-2032)
  - 7.3.2 World GRIN Fiber Collimator Production Value by Application (2021-2032)
  - 7.3.3 World GRIN Fiber Collimator Average Price by Application (2021-2032)

## **8 COMPANY PROFILES**

- 8.1 Thorlabs
  - 8.1.1 Thorlabs Details
  - 8.1.2 Thorlabs Major Business
  - 8.1.3 Thorlabs GRIN Fiber Collimator Product and Services
  - 8.1.4 Thorlabs GRIN Fiber Collimator Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.1.5 Thorlabs Recent Developments/Updates
  - 8.1.6 Thorlabs Competitive Strengths & Weaknesses
- 8.2 Newport Corporation
  - 8.2.1 Newport Corporation Details
  - 8.2.2 Newport Corporation Major Business
  - 8.2.3 Newport Corporation GRIN Fiber Collimator Product and Services
  - 8.2.4 Newport Corporation GRIN Fiber Collimator Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 8.2.5 Newport Corporation Recent Developments/Updates
- 8.2.6 Newport Corporation Competitive Strengths & Weaknesses
- 8.3 Laser Components
  - 8.3.1 Laser Components Details
  - 8.3.2 Laser Components Major Business
  - 8.3.3 Laser Components GRIN Fiber Collimator Product and Services
  - 8.3.4 Laser Components GRIN Fiber Collimator Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.3.5 Laser Components Recent Developments/Updates
  - 8.3.6 Laser Components Competitive Strengths & Weaknesses
- 8.4 Flyin Group
  - 8.4.1 Flyin Group Details
  - 8.4.2 Flyin Group Major Business
  - 8.4.3 Flyin Group GRIN Fiber Collimator Product and Services
  - 8.4.4 Flyin Group GRIN Fiber Collimator Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.4.5 Flyin Group Recent Developments/Updates
  - 8.4.6 Flyin Group Competitive Strengths & Weaknesses
- 8.5 Optek Systems
  - 8.5.1 Optek Systems Details
  - 8.5.2 Optek Systems Major Business
  - 8.5.3 Optek Systems GRIN Fiber Collimator Product and Services
  - 8.5.4 Optek Systems GRIN Fiber Collimator Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.5.5 Optek Systems Recent Developments/Updates
  - 8.5.6 Optek Systems Competitive Strengths & Weaknesses
- 8.6 Mightex
  - 8.6.1 Mightex Details
  - 8.6.2 Mightex Major Business
  - 8.6.3 Mightex GRIN Fiber Collimator Product and Services
  - 8.6.4 Mightex GRIN Fiber Collimator Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.6.5 Mightex Recent Developments/Updates
  - 8.6.6 Mightex Competitive Strengths & Weaknesses
- 8.7 SQS
  - 8.7.1 SQS Details
  - 8.7.2 SQS Major Business
  - 8.7.3 SQS GRIN Fiber Collimator Product and Services
  - 8.7.4 SQS GRIN Fiber Collimator Production, Price, Value, Gross Margin and Market

## Share (2021-2026)

8.7.5 SQS Recent Developments/Updates

8.7.6 SQS Competitive Strengths & Weaknesses

## 8.8 Edmund Optics

8.8.1 Edmund Optics Details

8.8.2 Edmund Optics Major Business

8.8.3 Edmund Optics GRIN Fiber Collimator Product and Services

8.8.4 Edmund Optics GRIN Fiber Collimator Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.8.5 Edmund Optics Recent Developments/Updates

8.8.6 Edmund Optics Competitive Strengths & Weaknesses

## 8.9 Brimrose Corp.

8.9.1 Brimrose Corp. Details

8.9.2 Brimrose Corp. Major Business

8.9.3 Brimrose Corp. GRIN Fiber Collimator Product and Services

8.9.4 Brimrose Corp. GRIN Fiber Collimator Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.9.5 Brimrose Corp. Recent Developments/Updates

8.9.6 Brimrose Corp. Competitive Strengths & Weaknesses

## 8.10 C.F.Technology (Beijing)

8.10.1 C.F.Technology (Beijing) Details

8.10.2 C.F.Technology (Beijing) Major Business

8.10.3 C.F.Technology (Beijing) GRIN Fiber Collimator Product and Services

8.10.4 C.F.Technology (Beijing) GRIN Fiber Collimator Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.10.5 C.F.Technology (Beijing) Recent Developments/Updates

8.10.6 C.F.Technology (Beijing) Competitive Strengths & Weaknesses

## **9 INDUSTRY CHAIN ANALYSIS**

9.1 GRIN Fiber Collimator Industry Chain

9.2 GRIN Fiber Collimator Upstream Analysis

9.2.1 GRIN Fiber Collimator Core Raw Materials

9.2.2 Main Manufacturers of GRIN Fiber Collimator Core Raw Materials

9.3 Midstream Analysis

9.4 Downstream Analysis

9.5 GRIN Fiber Collimator Production Mode

9.6 GRIN Fiber Collimator Procurement Model

9.7 GRIN Fiber Collimator Industry Sales Model and Sales Channels

- 9.7.1 GRIN Fiber Collimator Sales Model
- 9.7.2 GRIN Fiber Collimator Typical Distributors

## **10 RESEARCH FINDINGS AND CONCLUSION**

## **11 APPENDIX**

- 11.1 Methodology
- 11.2 Research Process and Data Source
- 11.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World GRIN Fiber Collimator Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World GRIN Fiber Collimator Production Value by Region (2021-2026) & (USD Million)

Table 3. World GRIN Fiber Collimator Production Value by Region (2027-2032) & (USD Million)

Table 4. World GRIN Fiber Collimator Production Value Market Share by Region (2021-2026)

Table 5. World GRIN Fiber Collimator Production Value Market Share by Region (2027-2032)

Table 6. World GRIN Fiber Collimator Production by Region (2021-2026) & (K Units)

Table 7. World GRIN Fiber Collimator Production by Region (2027-2032) & (K Units)

Table 8. World GRIN Fiber Collimator Production Market Share by Region (2021-2026)

Table 9. World GRIN Fiber Collimator Production Market Share by Region (2027-2032)

Table 10. World GRIN Fiber Collimator Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World GRIN Fiber Collimator Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. GRIN Fiber Collimator Major Market Trends

Table 13. World GRIN Fiber Collimator Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World GRIN Fiber Collimator Consumption by Region (2021-2026) & (K Units)

Table 15. World GRIN Fiber Collimator Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World GRIN Fiber Collimator Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key GRIN Fiber Collimator Producers in 2025

Table 18. World GRIN Fiber Collimator Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key GRIN Fiber Collimator Producers in 2025

Table 20. World GRIN Fiber Collimator Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global GRIN Fiber Collimator Company Evaluation Quadrant

Table 22. World GRIN Fiber Collimator Industry Rank of Major Manufacturers, Based on

## Production Value in 2025

Table 23. Head Office and GRIN Fiber Collimator Production Site of Key Manufacturer

Table 24. GRIN Fiber Collimator Market: Company Product Type Footprint

Table 25. GRIN Fiber Collimator Market: Company Product Application Footprint

Table 26. GRIN Fiber Collimator Competitive Factors

Table 27. GRIN Fiber Collimator New Entrant and Capacity Expansion Plans

Table 28. GRIN Fiber Collimator Mergers & Acquisitions Activity

Table 29. United States VS China GRIN Fiber Collimator Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China GRIN Fiber Collimator Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China GRIN Fiber Collimator Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based GRIN Fiber Collimator Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers GRIN Fiber Collimator Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers GRIN Fiber Collimator Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers GRIN Fiber Collimator Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers GRIN Fiber Collimator Production Market Share (2021-2026)

Table 37. China Based GRIN Fiber Collimator Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers GRIN Fiber Collimator Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers GRIN Fiber Collimator Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers GRIN Fiber Collimator Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers GRIN Fiber Collimator Production Market Share (2021-2026)

Table 42. Rest of World Based GRIN Fiber Collimator Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers GRIN Fiber Collimator Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers GRIN Fiber Collimator Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers GRIN Fiber Collimator Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers GRIN Fiber Collimator Production Market Share (2021-2026)

Table 47. World GRIN Fiber Collimator Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World GRIN Fiber Collimator Production by Type (2021-2026) & (K Units)

Table 49. World GRIN Fiber Collimator Production by Type (2027-2032) & (K Units)

Table 50. World GRIN Fiber Collimator Production Value by Type (2021-2026) & (USD Million)

Table 51. World GRIN Fiber Collimator Production Value by Type (2027-2032) & (USD Million)

Table 52. World GRIN Fiber Collimator Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World GRIN Fiber Collimator Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World GRIN Fiber Collimator Production Value by Fiber Type, (USD Million), 2021 & 2025 & 2032

Table 55. World GRIN Fiber Collimator Production by Fiber Type (2021-2026) & (K Units)

Table 56. World GRIN Fiber Collimator Production by Fiber Type (2027-2032) & (K Units)

Table 57. World GRIN Fiber Collimator Production Value by Fiber Type (2021-2026) & (USD Million)

Table 58. World GRIN Fiber Collimator Production Value by Fiber Type (2027-2032) & (USD Million)

Table 59. World GRIN Fiber Collimator Average Price by Fiber Type (2021-2026) & (US\$/Unit)

Table 60. World GRIN Fiber Collimator Average Price by Fiber Type (2027-2032) & (US\$/Unit)

Table 61. World GRIN Fiber Collimator Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World GRIN Fiber Collimator Production by Application (2021-2026) & (K Units)

Table 63. World GRIN Fiber Collimator Production by Application (2027-2032) & (K Units)

Table 64. World GRIN Fiber Collimator Production Value by Application (2021-2026) & (USD Million)

Table 65. World GRIN Fiber Collimator Production Value by Application (2027-2032) &

(USD Million)

Table 66. World GRIN Fiber Collimator Average Price by Application (2021-2026) & (US\$/Unit)

Table 67. World GRIN Fiber Collimator Average Price by Application (2027-2032) & (US\$/Unit)

Table 68. Thorlabs Basic Information, Manufacturing Base and Competitors

Table 69. Thorlabs Major Business

Table 70. Thorlabs GRIN Fiber Collimator Product and Services

Table 71. Thorlabs GRIN Fiber Collimator Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Thorlabs Recent Developments/Updates

Table 73. Thorlabs Competitive Strengths & Weaknesses

Table 74. Newport Corporation Basic Information, Manufacturing Base and Competitors

Table 75. Newport Corporation Major Business

Table 76. Newport Corporation GRIN Fiber Collimator Product and Services

Table 77. Newport Corporation GRIN Fiber Collimator Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. Newport Corporation Recent Developments/Updates

Table 79. Newport Corporation Competitive Strengths & Weaknesses

Table 80. Laser Components Basic Information, Manufacturing Base and Competitors

Table 81. Laser Components Major Business

Table 82. Laser Components GRIN Fiber Collimator Product and Services

Table 83. Laser Components GRIN Fiber Collimator Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Laser Components Recent Developments/Updates

Table 85. Laser Components Competitive Strengths & Weaknesses

Table 86. Flyin Group Basic Information, Manufacturing Base and Competitors

Table 87. Flyin Group Major Business

Table 88. Flyin Group GRIN Fiber Collimator Product and Services

Table 89. Flyin Group GRIN Fiber Collimator Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. Flyin Group Recent Developments/Updates

Table 91. Flyin Group Competitive Strengths & Weaknesses

Table 92. Optek Systems Basic Information, Manufacturing Base and Competitors

Table 93. Optek Systems Major Business

Table 94. Optek Systems GRIN Fiber Collimator Product and Services

Table 95. Optek Systems GRIN Fiber Collimator Production (K Units), Price (US\$/Unit),

Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 96. Optek Systems Recent Developments/Updates

Table 97. Optek Systems Competitive Strengths & Weaknesses

Table 98. Mightex Basic Information, Manufacturing Base and Competitors

Table 99. Mightex Major Business

Table 100. Mightex GRIN Fiber Collimator Product and Services

Table 101. Mightex GRIN Fiber Collimator Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 102. Mightex Recent Developments/Updates

Table 103. Mightex Competitive Strengths & Weaknesses

Table 104. SQS Basic Information, Manufacturing Base and Competitors

Table 105. SQS Major Business

Table 106. SQS GRIN Fiber Collimator Product and Services

Table 107. SQS GRIN Fiber Collimator Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 108. SQS Recent Developments/Updates

Table 109. SQS Competitive Strengths & Weaknesses

Table 110. Edmund Optics Basic Information, Manufacturing Base and Competitors

Table 111. Edmund Optics Major Business

Table 112. Edmund Optics GRIN Fiber Collimator Product and Services

Table 113. Edmund Optics GRIN Fiber Collimator Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 114. Edmund Optics Recent Developments/Updates

Table 115. Edmund Optics Competitive Strengths & Weaknesses

Table 116. Brimrose Corp. Basic Information, Manufacturing Base and Competitors

Table 117. Brimrose Corp. Major Business

Table 118. Brimrose Corp. GRIN Fiber Collimator Product and Services

Table 119. Brimrose Corp. GRIN Fiber Collimator Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 120. Brimrose Corp. Recent Developments/Updates

Table 121. Brimrose Corp. Competitive Strengths & Weaknesses

Table 122. C.F.Technology (Beijing) Basic Information, Manufacturing Base and Competitors

Table 123. C.F.Technology (Beijing) Major Business

Table 124. C.F.Technology (Beijing) GRIN Fiber Collimator Product and Services

Table 125. C.F.Technology (Beijing) GRIN Fiber Collimator Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 126. C.F.Technology (Beijing) Recent Developments/Updates

Table 127. C.F.Technology (Beijing) Competitive Strengths & Weaknesses

Table 128. Global Key Players of GRIN Fiber Collimator Upstream (Raw Materials)

Table 129. Global GRIN Fiber Collimator Typical Customers

Table 130. GRIN Fiber Collimator Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. GRIN Fiber Collimator Picture

Figure 2. World GRIN Fiber Collimator Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World GRIN Fiber Collimator Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World GRIN Fiber Collimator Production (2021-2032) & (K Units)

Figure 5. World GRIN Fiber Collimator Average Price (2021-2032) & (US\$/Unit)

Figure 6. World GRIN Fiber Collimator Production Value Market Share by Region (2021-2032)

Figure 7. World GRIN Fiber Collimator Production Market Share by Region (2021-2032)

Figure 8. North America GRIN Fiber Collimator Production (2021-2032) & (K Units)

Figure 9. Europe GRIN Fiber Collimator Production (2021-2032) & (K Units)

Figure 10. China GRIN Fiber Collimator Production (2021-2032) & (K Units)

Figure 11. Japan GRIN Fiber Collimator Production (2021-2032) & (K Units)

Figure 12. South Korea GRIN Fiber Collimator Production (2021-2032) & (K Units)

Figure 13. Southeast Asia GRIN Fiber Collimator Production (2021-2032) & (K Units)

Figure 14. China Taiwan GRIN Fiber Collimator Production (2021-2032) & (K Units)

Figure 15. GRIN Fiber Collimator Market Drivers

Figure 16. Factors Affecting Demand

Figure 17. World GRIN Fiber Collimator Consumption (2021-2032) & (K Units)

Figure 18. World GRIN Fiber Collimator Consumption Market Share by Region (2021-2032)

Figure 19. United States GRIN Fiber Collimator Consumption (2021-2032) & (K Units)

Figure 20. China GRIN Fiber Collimator Consumption (2021-2032) & (K Units)

Figure 21. Europe GRIN Fiber Collimator Consumption (2021-2032) & (K Units)

Figure 22. Japan GRIN Fiber Collimator Consumption (2021-2032) & (K Units)

Figure 23. South Korea GRIN Fiber Collimator Consumption (2021-2032) & (K Units)

Figure 24. ASEAN GRIN Fiber Collimator Consumption (2021-2032) & (K Units)

Figure 25. India GRIN Fiber Collimator Consumption (2021-2032) & (K Units)

Figure 26. Producer Shipments of GRIN Fiber Collimator by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 27. Global Four-firm Concentration Ratios (CR4) for GRIN Fiber Collimator Markets in 2025

Figure 28. Global Four-firm Concentration Ratios (CR8) for GRIN Fiber Collimator Markets in 2025

Figure 29. United States VS China: GRIN Fiber Collimator Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: GRIN Fiber Collimator Production Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: GRIN Fiber Collimator Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers GRIN Fiber Collimator Production Market Share 2025

Figure 33. China Based Manufacturers GRIN Fiber Collimator Production Market Share 2025

Figure 34. Rest of World Based Manufacturers GRIN Fiber Collimator Production Market Share 2025

Figure 35. World GRIN Fiber Collimator Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 36. World GRIN Fiber Collimator Production Value Market Share by Type in 2025

Figure 37. Fixed Focal Length

Figure 38. Adjustable Focal Length

Figure 39. World GRIN Fiber Collimator Production Market Share by Type (2021-2032)

Figure 40. World GRIN Fiber Collimator Production Value Market Share by Type (2021-2032)

Figure 41. World GRIN Fiber Collimator Average Price by Type (2021-2032) & (US\$/Unit)

Figure 42. World GRIN Fiber Collimator Production Value by Fiber Type, (USD Million), 2021 & 2025 & 2032

Figure 43. World GRIN Fiber Collimator Production Value Market Share by Fiber Type in 2025

Figure 44. Single-mode

Figure 45. Multimode

Figure 46. Polarization Maintaining

Figure 47. World GRIN Fiber Collimator Production Market Share by Fiber Type (2021-2032)

Figure 48. World GRIN Fiber Collimator Production Value Market Share by Fiber Type (2021-2032)

Figure 49. World GRIN Fiber Collimator Average Price by Fiber Type (2021-2032) & (US\$/Unit)

Figure 50. World GRIN Fiber Collimator Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 51. World GRIN Fiber Collimator Production Value Market Share by Application

in 2025

Figure 52. Optical Communication

Figure 53. Fiber Optic Sensing

Figure 54. Laser Processing

Figure 55. Scientific Research

Figure 56. Others

Figure 57. World GRIN Fiber Collimator Production Market Share by Application (2021-2032)

Figure 58. World GRIN Fiber Collimator Production Value Market Share by Application (2021-2032)

Figure 59. World GRIN Fiber Collimator Average Price by Application (2021-2032) & (US\$/Unit)

Figure 60. GRIN Fiber Collimator Industry Chain

Figure 61. GRIN Fiber Collimator Procurement Model

Figure 62. GRIN Fiber Collimator Sales Model

Figure 63. GRIN Fiber Collimator Sales Channels, Direct Sales, and Distribution

Figure 64. Methodology

Figure 65. Research Process and Data Source

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