

# Global GRIN Lens Fiber Collimator Market Growth 2026-2032

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## Abstracts

The global 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.

Global production of GRIN lens fiber collimators reached 3.64 million units in 2025, with an average selling price of US\$119 per unit. A GRIN lens 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%.

United States market for 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 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 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 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 "GRIN Lens Fiber Collimator Industry Forecast" looks at past sales and reviews total world GRIN Lens Fiber Collimator sales in 2025, providing a comprehensive analysis by region and market sector of projected GRIN Lens Fiber Collimator sales for 2026 through 2032. With 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 GRIN Lens Fiber Collimator industry.

This Insight Report provides a comprehensive analysis of the global 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 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 GRIN Lens Fiber Collimator market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 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 nuanced view of the current state and future trajectory in the global GRIN Lens Fiber Collimator.

This report presents a comprehensive overview, market shares, and growth opportunities of 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 GRIN Lens Fiber Collimator market?

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

Which technologies are poised for the fastest growth by market and region?

How do GRIN Lens Fiber Collimator market opportunities vary by end market size?

How does GRIN Lens Fiber Collimator break out by Type, by Application?

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