

Global Gradient Index (GRIN) Lens Fiber Collimator Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GDDEEC5E9CDEEN.html>

Date: January 2026

Pages: 104

Price: US\$ 4,480.00 (Single User License)

ID: GDDEEC5E9CDEEN

Abstracts

The global Gradient Index (GRIN) Lens 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).

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%.

This report studies the global Gradient Index (GRIN) Lens Fiber Collimator production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

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

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

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

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

U.S. VS China: Gradient Index (GRIN) Lens Fiber Collimator domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global Gradient Index (GRIN) Lens 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 Gradient Index (GRIN) Lens 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 Gradient Index (GRIN) Lens Fiber Collimator Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Gradient Index (GRIN) Lens Fiber Collimator Market, Segmentation by Type:

Fixed Focal Length

Adjustable Focal Length

Global Gradient Index (GRIN) Lens Fiber Collimator Market, Segmentation by Fiber Type:

Single-mode

Multimode

Polarization Maintaining

Global Gradient Index (GRIN) Lens 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 Gradient Index (GRIN) Lens Fiber Collimator market?
2. What is the demand of the global Gradient Index (GRIN) Lens Fiber Collimator market?
3. What is the year over year growth of the global Gradient Index (GRIN) Lens Fiber Collimator market?
4. What is the production and production value of the global Gradient Index (GRIN) Lens Fiber Collimator market?
5. Who are the key producers in the global Gradient Index (GRIN) Lens Fiber Collimator market?
6. What are the growth factors driving the market demand?

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