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Global Fiber Optic Stretching Actuator Market Growth 2026-2032

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Abstracts

The global Fiber Optic Stretching Actuator market size is predicted to grow from US$ 40.47 million in 2025 to US$ 69.34 million in 2032; it is expected to grow at a CAGR of 8.2% from 2026 to 2032.

In 2025, global production of fiber optic stretching actuators reached 43,000 units, with an estimated average selling price of US$962 per unit. Fiber optic stretching actuators apply controllable strain to an optical fiber fixed or wound on an actuation structure using piezoelectric ceramic tubes, piezoelectric stacks, or flexible amplification mechanisms. This causes minute changes in the fiber length and effective refractive index, thereby achieving precise adjustment of optical path, propagation delay, and optical phase. A typical structure consists of a piezoelectric driving element, an optical fiber winding or linear fixing section, a metal or flexible frame, an adhesive layer, an optical fiber pigtail, and an electrical interface. Some products also integrate high-voltage drivers, temperature compensation, and closed-loop feedback. Fiber optic stretching actuators are mainly used for fiber optic interferometry, fiber optic sensor demodulation, variable optical delay, optical phase scanning, fiber laser and resonant cavity stabilization, optical coherence tomography, optical frequency domain reflectance measurement, distributed acoustic and vibration sensing, precision metrology, coherent communication experiments, and quantum optical systems. The upstream of the industry chain includes PZT piezoelectric ceramic tubes, piezoelectric stacks and piezoelectric sheets, quartz single-mode, polarization-maintaining, multimode and special optical fibers, optical fiber coating materials such as acrylate and polyimide, as well as aluminum alloy or stainless steel frames, flexible hinges, structural adhesives, conductive adhesives, optical fiber connectors, cables and high-voltage driver chips; midstream manufacturing includes piezoelectric element design, flexible frame and flexible mechanism processing, optical fiber pretreatment, controlled tension fiber

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winding, optical fiber bonding and curing, pigtail splicing, connector installation, shell encapsulation, electrical connection, and testing of elongation, half-wave voltage, phase shift range, resonant frequency, insertion loss, polarization extinction ratio and cycle life; downstream mainly includes optical fiber sensing systems, distributed acoustic sensing, fiber optic gyroscopes and interferometers, OCT medical equipment, fiber lasers, semiconductor and precision optical inspection, quantum communication and quantum computing, aerospace measurement, earthquake and ocean monitoring, as well as universities and national laboratories. Gross profit margin is approximately 30%–55%.

United States market for Fiber Optic Stretching Actuator 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 Fiber Optic Stretching Actuator 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 Fiber Optic Stretching Actuator is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Fiber Optic Stretching Actuator players cover PiezoDrive, Optiphase, Luna Innovations, Evanescent Optics, Idil by Fiber Optics Group, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

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

This Insight Report provides a comprehensive analysis of the global Fiber Optic Stretching Actuator 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 Fiber Optic Stretching Actuator portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these

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firms' unique position in an accelerating global Fiber Optic Stretching Actuator market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Fiber Optic Stretching Actuator 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 Fiber Optic Stretching Actuator.

This report presents a comprehensive overview, market shares, and growth opportunities of Fiber Optic Stretching Actuator market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Piezoelectric Tube Fiber-Wound Type

Piezoelectric Frame Fiber-Wound Type

Piezoelectric Stack Czochralski Type

Flexible Hinge Radial Expansion Type

Segmentation by Frequency:

Quasi-Static / Low-Frequency Type

Medium-Frequency Broadband Type

High-Frequency Type

Segmentation by Fiber Type:

Single-Mode Fiber

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Polarization-Maintaining Fiber

Multimode Fiber

Special Fiber

Segmentation by Application:

Fiber Optic Interferometry

Optical Phase Scanning

Fiber Laser

Semiconductor and Precision Optical Inspection

Quantum Communication and Quantum Computing

Aerospace Measurement

Earthquake and Ocean Monitoring

Universities and National Laboratories

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

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- 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

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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.

PiezoDrive

Optiphase

Luna Innovations

Evanescent Optics

Idil by Fiber Optics Group

Thorlabs

CoreMorrow Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Fiber Optic Stretching Actuator market?

What factors are driving Fiber Optic Stretching Actuator market growth, globally and by region?

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

How do Fiber Optic Stretching Actuator market opportunities vary by end market size?

How does Fiber Optic Stretching Actuator break out by Type, by Application?

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