

Global Transmission Grating Beamsplitters Market Growth 2026-2032

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Abstracts

The global Transmission Grating Beamsplitters market size is predicted to grow from US\$ 230 million in 2025 to US\$ 384 million in 2032; it is expected to grow at a CAGR of 7.7% from 2026 to 2032.

Transmission grating beamsplitters are transmissive diffractive optical components that use periodic micro- or nano-scale structures on a transparent substrate or within a volume-phase medium to redistribute incident light into different diffraction orders, wavelengths or propagation angles. Typical product forms include low-line-density transmission grating beamsplitters, replicated transmission gratings, volume phase holographic transmission gratings, fused-silica etched transmission gratings and grism assemblies. These components are primarily used for laser beam splitting, multi-line laser separation, spectroscopic dispersion, OCT, Raman and fluorescence spectroscopy, hyperspectral imaging, pulse compression, LiDAR, optical communication and astronomical spectroscopy.

Based on our research, transmission grating beamsplitters sit at the intersection of diffractive optics and precision spectroscopic components. Low-line-density transmission grating beamsplitters are mainly used for laser beam splitting and multi-order beam separation, while higher-performance transmission diffraction gratings, VPH gratings, fused-silica etched gratings and large-format custom gratings serve more demanding applications such as spectroscopy, OCT, Raman, hyperspectral imaging, astronomy and high-power laser systems. The industry is mature at the standard-component level, but the competitive core is not simple glass processing. It lies in master grating fabrication, holographic exposure, nano-replication, etching, coating, wavefront control, stray-light suppression and long-term batch-to-batch consistency. From a supply-chain perspective, the confirmed high-end manufacturing base is

concentrated in North America, Europe and Japan. HORIBA, Newport / Richardson Gratings, ZEISS, Coherent / LightSmyth, Wasatch Photonics, Ibsen Photonics, Plymouth Grating Laboratory and Headwall / Holographix form the core global supplier group with strong official product evidence and established application coverage. These companies compete across different technology routes: ruled and holographic gratings, VPH gratings, fused-silica etched gratings, replicated gratings and large-format custom assemblies. Chinese suppliers have visible participation in standard transmission grating beamsplitters and optical-component distribution, but public evidence for advanced VPH, etched fused-silica and large-format high-uniformity grating manufacturing remains comparatively limited. From the demand side, traditional consumption comes from laboratory laser splitting, optical education, spectrometers, monochromators, Raman instruments, OCT systems and general industrial spectroscopy. Incremental demand is increasingly linked to hyperspectral imaging, LiDAR, optical communication, semiconductor inspection, ultrafast laser pulse compression, high-power laser systems, astronomy and space payloads. Because each application places different requirements on diffraction efficiency, polarization sensitivity, wavelength range, damage threshold, wavefront error, environmental stability and stray light, suppliers are usually segmented by application capability rather than by a single universal product specification. Looking ahead, the market is expected to grow steadily rather than explosively. Standard transmission grating beamsplitters will remain a price-competitive and catalog-driven segment, while value growth will be more concentrated in high-efficiency VPH gratings, fused-silica etched gratings, high-damage-threshold gratings, compact spectrometer OEM components and large-format custom optics. Miniaturized spectroscopy, hyperspectral imaging, OCT, Raman, LiDAR and spaceborne optical systems will continue to raise the performance requirements for transmission gratings. As a result, future competitive advantage will increasingly depend on process know-how, optical design support, qualification history and the ability to deliver stable OEM volumes rather than only on component price.

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

This Insight Report provides a comprehensive analysis of the global Transmission Grating Beamsplitters 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 Transmission Grating Beamsplitters portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Transmission Grating Beamsplitters market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Transmission Grating Beamsplitters and breaks down the forecast by Manufacturing Technology, 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 Transmission Grating Beamsplitters.

This report presents a comprehensive overview, market shares, and growth opportunities of Transmission Grating Beamsplitters market by product type, application, key manufacturers and key regions and countries.

Segmentation by Manufacturing Technology:

Ruled Gratings

Holographic Gratings

Replicated Gratings

VPH Gratings

Etched Gratings

Segmentation by Spectral Range:

UV

VIS

NIR

SWIR

Segmentation by Line Density:

Low Line Density Gratings

Medium Line Density Gratings

High Line Density Gratings

Ultra-high Line Density / Custom Gratings

Other / Non-standard

Segmentation by Application:

Laser Beam Splitting

Spectroscopy

OCT and Biomedical Imaging

Hyperspectral Imaging

High-power Laser Systems

Astronomy and Space

Telecom and LiDAR

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.

HORIBA Scientific

Newport

ZEISS Spectroscopy

Coherent Corp.

Wasatch Photonics

Ibsen Photonics

Plymouth Grating Laboratory

Headwall Photonics

Optometrics

OPCO Laboratory

Spectrogon AB

Edmund Optics

Union Optic

Key Questions Addressed in this Report

What is the 10-year outlook for the global Transmission Grating Beamsplitters market?
What factors are driving Transmission Grating Beamsplitters market growth, globally and by region?

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

How do Transmission Grating Beamsplitters market opportunities vary by end market size?

How does Transmission Grating Beamsplitters break out by Manufacturing Technology, by Application?

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