

Global Transmission Gratings Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Transmission Gratings market size was valued at US\$ 45.12 million in 2025 and is forecast to a readjusted size of US\$ 74.26 million by 2032 with a CAGR of 7.5% during review period.

Transmission Gratings are a type of diffraction grating, which are optical elements that engrave many parallel, equidistant, and equal-width slits on transparent glass and use the principle of multi-slit diffraction to disperse the composite light. The optical path design of Transmission Gratings is simple. For applications using fixed gratings, transmission gratings have obvious advantages, such as spectrometers. The incident beam is dispersed at a fixed angle at the back of the grating. Transmission gratings are insensitive to some types of grating alignment errors. In order to obtain high diffraction efficiency, the density of transmission grating lines is not high. The diffraction angle increases as the scribe density increases, and the refractive index of the base material limits the transmittance of long wavelengths, resulting in reduced performance. The dispersive properties of gratings make them suitable for compact systems using small detector arrays, and the gratings are also insensitive to polarization. In 2024, the sales volume of transmission gratings was 117.84K units, with an average selling price of \$344 per unit.

The transmission gratings market is continuously expanding with the upgrading of precision optics and spectral analysis needs, and its technological evolution is closely centered around core performances such as high resolution, wide band, and resistance to harsh environments. In the fields of industrial inspection, scientific research instruments, and consumer electronics, gratings with different technical routes are forming a differentiated competitive landscape. Traditional mechanical ruled gratings

stick to the high-end market with their high diffraction efficiency, holographic gratings dominate precision spectral analysis with their low stray light advantage, and nanoimprint technology promotes the accelerated popularization of low-cost gratings in portable devices. Emerging applications such as lidar, quantum technology, and space exploration are creating demand for special-function gratings, especially radiation-resistant and large-aperture splicing technologies, which have become key breakthroughs in space optical systems. In the future, the market will pay more attention to customized services and multifunctional integration, and advances in material innovation and micro-nano processing technology are expected to further expand the performance boundaries and application scenarios of transmission gratings.

This report is a detailed and comprehensive analysis for global Transmission Gratings market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Transmission Gratings market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Transmission Gratings market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Transmission Gratings market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Transmission Gratings market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Transmission Gratings

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Transmission Gratings market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include AGC, Newport (MKS Instruments), Lightsmyth (Coherent), Thorlabs, Ibsen Photonics, Horiba, Shimadzu, Wasatch Photonics, CASTECH, Omega Optical, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Transmission Gratings market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

UV

VIS

NIR

Market segment by Application

Optical Communication

OCT

Pulse Laser System

Others

Major players covered

AGC

Newport (MKS Instruments)

Lightsmyth (Coherent)

Thorlabs

Ibsen Photonics

Horiba

Shimadzu

Wasatch Photonics

CASTECH

Omega Optical

Plymouth Grating Laboratory

Jenoptik

OptiGrate

Ushio

Edmund Optics

Zeiss

Knight Optical

Holographix (Headwall Photonics)

HOLO/OR

OPCO Laboratory

Gitterwerk

Shenyang Ebetter Optics

CTL Photonics

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Transmission Gratings product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Transmission Gratings, with price, sales quantity, revenue, and global market share of Transmission Gratings from 2021 to 2026.

Chapter 3, the Transmission Gratings competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Transmission Gratings breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales

quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Transmission Gratings market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Transmission Gratings.

Chapter 14 and 15, to describe Transmission Gratings sales channel, distributors, customers, research findings and conclusion.

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