

# Global Diffractive Optical Elements Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Diffractive Optical Elements market size is expected to reach \$ 473 million by 2032, rising at a market growth of 3.6% CAGR during the forecast period (2026-2032).

Diffractive optical elements, DOEs, were designed for applications with lasers and high-power lasers. Used as multi-spot beam splitters, in beam shaping, and beam profile modification, such elements offer endless possibilities in different application fields. Diffractive optical element uses a thin micro structure pattern to alter the phase of the light propagated through it. When a laser beam is transmitted through a diffractive optical element (DOE), it can be transformed into an almost arbitrary light pattern in the observation plane.

Currently, advanced diffractive optical element (DOE) technology is mainly controlled by Japanese and Western enterprises, leading to a monopolistic market and technological landscape. The global leading companies include Shimadzu Corporation, Newport Corporation (MKS Instruments), Il-VI Incorporated, SUSS MicroTec AG, Zeiss, and HORIBA. For companies that have already entered the market, it is necessary to continuously raise the technological barriers to prevent more enterprises from entering. They need to reduce costs and prices to quickly capture the market, develop new customer segments, and establish a significant market share. Additionally, they should build their brand image to lay a foundation for entering the consumer market. Only in this way can they gain a larger market capital share in fierce competition.

Enterprises in Europe, America, and Japan have deep technological accumulations and strong comprehensive capabilities, with clear advantages in core patents and technologies. They dominate the high-end market and hold a significant portion of the

global DOE market share. China has made some technological breakthroughs in the field of DOEs. With national policy support for the optical device industry, there has been a significant push for the development of optical devices. However, Chinese and other regional manufacturers are generally smaller in scale and weaker in R&D capabilities, often playing a follower role. Many of these companies typically lack their own core technologies and adopt low-price marketing and cost-competitive strategies to gain market share. Their markets are mostly concentrated in price-sensitive, lower-end domestic customers, capturing a certain market share.

The primary sales regions for DOEs are Europe and America, which together accounted for about 60% of the global consumption market share in 2023. The Asia-Pacific market also plays a crucial role in driving global market growth, particularly due to the rapid development in Japan, China, and Southeast Asian countries.

In terms of product types, laser beam-splitting DOEs hold an important position, and their market share is expected to reach 55% by 2030. From an application perspective, laser material processing accounted for approximately 68% of the market share in 2023, with a CAGR of around 4.2% over the next few years. Benefiting from national policy support and the rapid development of downstream laser material processing and biomedical equipment, the DOE market is expected to continue growing at a steady rate of 3% to 5%. Among these, the laser material processing application market holds the largest global market share, with typical applications including laser drilling, laser ablation, laser cutting, laser hardening and remelting, and laser micro-processing.

This report studies the global Diffractive Optical Elements production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Diffractive Optical Elements 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 Diffractive Optical Elements that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Diffractive Optical Elements total production and demand, 2021-2032, (K Units)

Global Diffractive Optical Elements total production value, 2021-2032, (USD Million)

Global Diffractive Optical Elements production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Diffractive Optical Elements consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Diffractive Optical Elements domestic production, consumption, key domestic manufacturers and share

Global Diffractive Optical Elements production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Diffractive Optical Elements production by Power, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Diffractive Optical Elements production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Diffractive Optical Elements 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 Shimadzu Corporation, Newport Corporation (MKS Instruments), II-VI Incorporated, SUSS MicroTec AG, Zeiss, HORIBA, Jenoptik, Holo/Or Ltd., Edmund Optics, Omega, 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 Diffractive Optical Elements market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (USD/Unit) by manufacturer, by Power, 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 Diffractive Optical Elements Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## Global Diffractive Optical Elements Market, Segmentation by Power:

Beam Shaping (Top-Hat)

Beam Splitting

Beam Foci

## Global Diffractive Optical Elements Market, Segmentation by Application:

Laser Material Processing

Biomedical Equipment

Others

## Companies Profiled:

Shimadzu Corporation

Newport Corporation (MKS Instruments)

II-VI Incorporated

SUSS MicroTec AG

Zeiss

HORIBA

Jenoptik

Holo/Or Ltd.

Edmund Optics

Omega

Plymouth Grating Lab

Wasatch Photonics

Spectrogon AB

SILIOS Technologies

GratingWorks

Headwall Photonics

### **Key Questions Answered:**

1. How big is the global Diffractive Optical Elements market?
2. What is the demand of the global Diffractive Optical Elements market?
3. What is the year over year growth of the global Diffractive Optical Elements market?
4. What is the production and production value of the global Diffractive Optical Elements market?

5. Who are the key producers in the global Diffractive Optical Elements market?
6. What are the growth factors driving the market demand?

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