

Global Diffractive Optical Elements (DOE) Market Size, Manufacturers, Growth Analysis Industry Forecast to 2030

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Abstracts

Summary

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.

According to APO Research, The global Diffractive Optical Elements (DOE) market is projected to grow from US\$ million in 2024 to US\$ million by 2030, at a Compound Annual Growth Rate (CAGR) of % during the forecast period.

North American market for Diffractive Optical Elements (DOE) is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Asia-Pacific market for Diffractive Optical Elements (DOE) is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The China market for Diffractive Optical Elements (DOE) is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Europe market for Diffractive Optical Elements (DOE) is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The major global manufacturers of Diffractive Optical Elements (DOE) include Holo/Or Ltd., HORIBA, Newport Corporation, Jenoptik, Photop Technologies (II-VI Incorporated), Shimadzu Corporation, Zeiss, SUSS MicroTec AG. and Lightsmyth (Finisar), etc. In 2023, the world's top three vendors accounted for approximately % of the revenue.

This report presents an overview of global market for Diffractive Optical Elements (DOE), sales, revenue and price. Analyses of the global market trends, with historic market revenue or sales data for 2019 - 2023, estimates for 2024, and projections of CAGR through 2030.

This report researches the key producers of Diffractive Optical Elements (DOE), also provides the sales of main regions and countries. Of the upcoming market potential for Diffractive Optical Elements (DOE), and key regions or countries of focus to forecast this market into various segments and sub-segments. Country specific data and market value analysis for the U.S., Canada, Mexico, Brazil, China, Japan, South Korea, Southeast Asia, India, Germany, the U.K., Italy, Middle East, Africa, and Other Countries.

This report focuses on the Diffractive Optical Elements (DOE) sales, revenue, market share and industry ranking of main manufacturers, data from 2019 to 2024. Identification of the major stakeholders in the global Diffractive Optical Elements (DOE) market, and analysis of their competitive landscape and market positioning based on recent developments and segmental revenues. This report will help stakeholders to understand the competitive landscape and gain more insights and position their businesses and market strategies in a better way.

This report analyzes the segments data by Type and by Application, sales, revenue, and price, from 2019 to 2030. Evaluation and forecast the market size for Diffractive Optical Elements (DOE) sales, projected growth trends, production technology, application and end-user industry.

Diffractive Optical Elements (DOE) segment by Company

Holo/Or Ltd.

HORIBA

Newport Corporation

Jenoptik

Photop Technologies (II-VI Incorporated)

Shimadzu Corporation

Zeiss

SUSS MicroTec AG.

Lightsmyth (Finisar)

Edmund Optics

Optometrics (Dynasil)

Headwall Photonics

Plymouth Grating Lab

Wasatch Photonics

Spectrogon AB

SILIOS Technologies

GratingWorks

Diffraction Optical Elements (DOE) segment by Type

Beam Shaping (Top-Hat)

Beam Splitting

Beam Foci

Diffractive Optical Elements (DOE) segment by Application

Laser Material Processing

Biomedical Equipment

Others

Diffractive Optical Elements (DOE) segment by Region

North America

U.S.

Canada

Europe

Germany

France

U.K.

Italy

Russia

Asia-Pacific

China

Japan

South Korea

India

Australia

China Taiwan

Indonesia

Thailand

Malaysia

Latin America

Mexico

Brazil

Argentina

Middle East & Africa

Turkey

Saudi Arabia

UAE

Study Objectives

1. To analyze and research the global Diffractive Optical Elements (DOE) status and future forecast, involving, sales, revenue, growth rate (CAGR), market share, historical and forecast.

2. To present the key manufacturers, sales, revenue, market share, and Recent

Developments.

3. To split the breakdown data by regions, type, manufacturers, and Application.
4. To analyze the global and key regions Diffractive Optical Elements (DOE) market potential and advantage, opportunity and challenge, restraints, and risks.
5. To identify Diffractive Optical Elements (DOE) significant trends, drivers, influence factors in global and regions.
6. To analyze Diffractive Optical Elements (DOE) competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Diffractive Optical Elements (DOE) market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.
2. This report will help stakeholders to understand the global industry status and trends of Diffractive Optical Elements (DOE) and provides them with information on key market drivers, restraints, challenges, and opportunities.
3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in sales and value), competitor ecosystem, new product development, expansion, and acquisition.
4. This report stays updated with novel technology integration, features, and the latest developments in the market.
5. This report helps stakeholders to gain insights into which regions to target globally.
6. This report helps stakeholders to gain insights into the end-user perception

concerning the adoption of Diffractive Optical Elements (DOE).

7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

Chapter Outline

Chapter 1: Provides an overview of the Diffractive Optical Elements (DOE) market, including product definition, global market growth prospects, sales value, sales volume, and average price forecasts (2019-2030).

Chapter 2: Analysis key trends, drivers, challenges, and opportunities within the global Diffractive Optical Elements (DOE) industry.

Chapter 3: Detailed analysis of Diffractive Optical Elements (DOE) manufacturers competitive landscape, price, sales and revenue market share, latest development plan, merger, and acquisition information, etc.

Chapter 4: Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 5: Provides the analysis of various market segments by application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 6: Sales and value of Diffractive Optical Elements (DOE) in regional level. It provides a quantitative analysis of the market size and development potential of each region and introduces the market development, future development prospects, market space, and market size of each country in the world.

Chapter 7: Sales and value of Diffractive Optical Elements (DOE) in country level. It provides sigmate data by type, and by application for each country/region.

Chapter 8: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product sales, revenue, price, gross margin, product introduction, recent development, etc.

Chapter 9: Analysis of industrial chain, including the upstream and downstream of the

industry.

Chapter 10: Concluding Insights.

Contents

1 MARKET OVERVIEW

- 1.1 Product Definition
- 1.2 Global Market Growth Prospects
 - 1.2.1 Global Diffractive Optical Elements (DOE) Sales Value (2019-2030)
 - 1.2.2 Global Diffractive Optical Elements (DOE) Sales Volume (2019-2030)
 - 1.2.3 Global Diffractive Optical Elements (DOE) Sales Average Price (2019-2030)
- 1.3 Assumptions and Limitations
- 1.4 Study Goals and Objectives

2 DIFFRACTIVE OPTICAL ELEMENTS (DOE) MARKET DYNAMICS

- 2.1 Diffractive Optical Elements (DOE) Industry Trends
- 2.2 Diffractive Optical Elements (DOE) Industry Drivers
- 2.3 Diffractive Optical Elements (DOE) Industry Opportunities and Challenges
- 2.4 Diffractive Optical Elements (DOE) Industry Restraints

3 DIFFRACTIVE OPTICAL ELEMENTS (DOE) MARKET BY COMPANY

- 3.1 Global Diffractive Optical Elements (DOE) Company Revenue Ranking in 2023
- 3.2 Global Diffractive Optical Elements (DOE) Revenue by Company (2019-2024)
- 3.3 Global Diffractive Optical Elements (DOE) Sales Volume by Company (2019-2024)
- 3.4 Global Diffractive Optical Elements (DOE) Average Price by Company (2019-2024)
- 3.5 Global Diffractive Optical Elements (DOE) Company Ranking, 2022 VS 2023 VS 2024
- 3.6 Global Diffractive Optical Elements (DOE) Company Manufacturing Base & Headquarters
- 3.7 Global Diffractive Optical Elements (DOE) Company, Product Type & Application
- 3.8 Global Diffractive Optical Elements (DOE) Company Commercialization Time
- 3.9 Market Competitive Analysis
 - 3.9.1 Global Diffractive Optical Elements (DOE) Market CR5 and HHI
 - 3.9.2 Global Top 5 and 10 Company Market Share by Revenue in 2023
 - 3.9.3 2023 Diffractive Optical Elements (DOE) Tier 1, Tier 2, and Tier
- 3.10 Mergers & Acquisitions, Expansion

4 DIFFRACTIVE OPTICAL ELEMENTS (DOE) MARKET BY TYPE

4.1 Diffractive Optical Elements (DOE) Type Introduction

4.1.1 Beam Shaping (Top-Hat)

4.1.2 Beam Splitting

4.1.3 Beam Foci

4.2 Global Diffractive Optical Elements (DOE) Sales Volume by Type

4.2.1 Global Diffractive Optical Elements (DOE) Sales Volume by Type (2019 VS 2023 VS 2030)

4.2.2 Global Diffractive Optical Elements (DOE) Sales Volume by Type (2019-2030)

4.2.3 Global Diffractive Optical Elements (DOE) Sales Volume Share by Type (2019-2030)

4.3 Global Diffractive Optical Elements (DOE) Sales Value by Type

4.3.1 Global Diffractive Optical Elements (DOE) Sales Value by Type (2019 VS 2023 VS 2030)

4.3.2 Global Diffractive Optical Elements (DOE) Sales Value by Type (2019-2030)

4.3.3 Global Diffractive Optical Elements (DOE) Sales Value Share by Type (2019-2030)

5 DIFFRACTIVE OPTICAL ELEMENTS (DOE) MARKET BY APPLICATION

5.1 Diffractive Optical Elements (DOE) Application Introduction

5.1.1 Laser Material Processing

5.1.2 Biomedical Equipment

5.1.3 Others

5.2 Global Diffractive Optical Elements (DOE) Sales Volume by Application

5.2.1 Global Diffractive Optical Elements (DOE) Sales Volume by Application (2019 VS 2023 VS 2030)

5.2.2 Global Diffractive Optical Elements (DOE) Sales Volume by Application (2019-2030)

5.2.3 Global Diffractive Optical Elements (DOE) Sales Volume Share by Application (2019-2030)

5.3 Global Diffractive Optical Elements (DOE) Sales Value by Application

5.3.1 Global Diffractive Optical Elements (DOE) Sales Value by Application (2019 VS 2023 VS 2030)

5.3.2 Global Diffractive Optical Elements (DOE) Sales Value by Application (2019-2030)

5.3.3 Global Diffractive Optical Elements (DOE) Sales Value Share by Application (2019-2030)

6 DIFFRACTIVE OPTICAL ELEMENTS (DOE) MARKET BY REGION

- 6.1 Global Diffractive Optical Elements (DOE) Sales by Region: 2019 VS 2023 VS 2030
- 6.2 Global Diffractive Optical Elements (DOE) Sales by Region (2019-2030)
 - 6.2.1 Global Diffractive Optical Elements (DOE) Sales by Region: 2019-2024
 - 6.2.2 Global Diffractive Optical Elements (DOE) Sales by Region (2025-2030)
- 6.3 Global Diffractive Optical Elements (DOE) Sales Value by Region: 2019 VS 2023 VS 2030
- 6.4 Global Diffractive Optical Elements (DOE) Sales Value by Region (2019-2030)
 - 6.4.1 Global Diffractive Optical Elements (DOE) Sales Value by Region: 2019-2024
 - 6.4.2 Global Diffractive Optical Elements (DOE) Sales Value by Region (2025-2030)
- 6.5 Global Diffractive Optical Elements (DOE) Market Price Analysis by Region (2019-2024)
- 6.6 North America
 - 6.6.1 North America Diffractive Optical Elements (DOE) Sales Value (2019-2030)
 - 6.6.2 North America Diffractive Optical Elements (DOE) Sales Value Share by Country, 2023 VS 2030
- 6.7 Europe
 - 6.7.1 Europe Diffractive Optical Elements (DOE) Sales Value (2019-2030)
 - 6.7.2 Europe Diffractive Optical Elements (DOE) Sales Value Share by Country, 2023 VS 2030
- 6.8 Asia-Pacific
 - 6.8.1 Asia-Pacific Diffractive Optical Elements (DOE) Sales Value (2019-2030)
 - 6.8.2 Asia-Pacific Diffractive Optical Elements (DOE) Sales Value Share by Country, 2023 VS 2030
- 6.9 Latin America
 - 6.9.1 Latin America Diffractive Optical Elements (DOE) Sales Value (2019-2030)
 - 6.9.2 Latin America Diffractive Optical Elements (DOE) Sales Value Share by Country, 2023 VS 2030
- 6.10 Middle East & Africa
 - 6.10.1 Middle East & Africa Diffractive Optical Elements (DOE) Sales Value (2019-2030)
 - 6.10.2 Middle East & Africa Diffractive Optical Elements (DOE) Sales Value Share by Country, 2023 VS 2030

7 DIFFRACTIVE OPTICAL ELEMENTS (DOE) MARKET BY COUNTRY

- 7.1 Global Diffractive Optical Elements (DOE) Sales by Country: 2019 VS 2023 VS 2030
- 7.2 Global Diffractive Optical Elements (DOE) Sales Value by Country: 2019 VS 2023

VS 2030

7.3 Global Diffractive Optical Elements (DOE) Sales by Country (2019-2030)

7.3.1 Global Diffractive Optical Elements (DOE) Sales by Country (2019-2024)

7.3.2 Global Diffractive Optical Elements (DOE) Sales by Country (2025-2030)

7.4 Global Diffractive Optical Elements (DOE) Sales Value by Country (2019-2030)

7.4.1 Global Diffractive Optical Elements (DOE) Sales Value by Country (2019-2024)

7.4.2 Global Diffractive Optical Elements (DOE) Sales Value by Country (2025-2030)

7.5 USA

7.5.1 Global Diffractive Optical Elements (DOE) Sales Value Growth Rate (2019-2030)

7.5.2 Global Diffractive Optical Elements (DOE) Sales Value Share by Type, 2023 VS

2030

7.5.3 Global Diffractive Optical Elements (DOE) Sales Value Share by Application, 2023 VS 2030

7.6 Canada

7.6.1 Global Diffractive Optical Elements (DOE) Sales Value Growth Rate (2019-2030)

7.6.2 Global Diffractive Optical Elements (DOE) Sales Value Share by Type, 2023 VS

2030

7.6.3 Global Diffractive Optical Elements (DOE) Sales Value Share by Application, 2023 VS 2030

7.7 Germany

7.7.1 Global Diffractive Optical Elements (DOE) Sales Value Growth Rate (2019-2030)

7.7.2 Global Diffractive Optical Elements (DOE) Sales Value Share by Type, 2023 VS

2030

7.7.3 Global Diffractive Optical Elements (DOE) Sales Value Share by Application, 2023 VS 2030

7.8 France

7.8.1 Global Diffractive Optical Elements (DOE) Sales Value Growth Rate (2019-2030)

7.8.2 Global Diffractive Optical Elements (DOE) Sales Value Share by Type, 2023 VS

2030

7.8.3 Global Diffractive Optical Elements (DOE) Sales Value Share by Application, 2023 VS 2030

7.9 U.K.

7.9.1 Global Diffractive Optical Elements (DOE) Sales Value Growth Rate (2019-2030)

7.9.2 Global Diffractive Optical Elements (DOE) Sales Value Share by Type, 2023 VS

2030

7.9.3 Global Diffractive Optical Elements (DOE) Sales Value Share by Application, 2023 VS 2030

7.10 Italy

7.10.1 Global Diffractive Optical Elements (DOE) Sales Value Growth Rate

(2019-2030)

7.10.2 Global Diffractive Optical Elements (DOE) Sales Value Share by Type, 2023 VS 2030

7.10.3 Global Diffractive Optical Elements (DOE) Sales Value Share by Application, 2023 VS 2030

7.11 Netherlands

7.11.1 Global Diffractive Optical Elements (DOE) Sales Value Growth Rate (2019-2030)

7.11.2 Global Diffractive Optical Elements (DOE) Sales Value Share by Type, 2023 VS 2030

7.11.3 Global Diffractive Optical Elements (DOE) Sales Value Share by Application, 2023 VS 2030

7.12 Nordic Countries

7.12.1 Global Diffractive Optical Elements (DOE) Sales Value Growth Rate (2019-2030)

7.12.2 Global Diffractive Optical Elements (DOE) Sales Value Share by Type, 2023 VS 2030

7.12.3 Global Diffractive Optical Elements (DOE) Sales Value Share by Application, 2023 VS 2030

7.13 China

7.13.1 Global Diffractive Optical Elements (DOE) Sales Value Growth Rate (2019-2030)

7.13.2 Global Diffractive Optical Elements (DOE) Sales Value Share by Type, 2023 VS 2030

7.13.3 Global Diffractive Optical Elements (DOE) Sales Value Share by Application, 2023 VS 2030

7.14 Japan

7.14.1 Global Diffractive Optical Elements (DOE) Sales Value Growth Rate (2019-2030)

7.14.2 Global Diffractive Optical Elements (DOE) Sales Value Share by Type, 2023 VS 2030

7.14.3 Global Diffractive Optical Elements (DOE) Sales Value Share by Application, 2023 VS 2030

7.15 South Korea

7.15.1 Global Diffractive Optical Elements (DOE) Sales Value Growth Rate (2019-2030)

7.15.2 Global Diffractive Optical Elements (DOE) Sales Value Share by Type, 2023 VS 2030

7.15.3 Global Diffractive Optical Elements (DOE) Sales Value Share by Application,

2023 VS 2030

7.16 Southeast Asia

7.16.1 Global Diffractive Optical Elements (DOE) Sales Value Growth Rate (2019-2030)

7.16.2 Global Diffractive Optical Elements (DOE) Sales Value Share by Type, 2023 VS 2030

7.16.3 Global Diffractive Optical Elements (DOE) Sales Value Share by Application, 2023 VS 2030

7.17 India

7.17.1 Global Diffractive Optical Elements (DOE) Sales Value Growth Rate (2019-2030)

7.17.2 Global Diffractive Optical Elements (DOE) Sales Value Share by Type, 2023 VS 2030

7.17.3 Global Diffractive Optical Elements (DOE) Sales Value Share by Application, 2023 VS 2030

7.18 Australia

7.18.1 Global Diffractive Optical Elements (DOE) Sales Value Growth Rate (2019-2030)

7.18.2 Global Diffractive Optical Elements (DOE) Sales Value Share by Type, 2023 VS 2030

7.18.3 Global Diffractive Optical Elements (DOE) Sales Value Share by Application, 2023 VS 2030

7.19 Mexico

7.19.1 Global Diffractive Optical Elements (DOE) Sales Value Growth Rate (2019-2030)

7.19.2 Global Diffractive Optical Elements (DOE) Sales Value Share by Type, 2023 VS 2030

7.19.3 Global Diffractive Optical Elements (DOE) Sales Value Share by Application, 2023 VS 2030

7.20 Brazil

7.20.1 Global Diffractive Optical Elements (DOE) Sales Value Growth Rate (2019-2030)

7.20.2 Global Diffractive Optical Elements (DOE) Sales Value Share by Type, 2023 VS 2030

7.20.3 Global Diffractive Optical Elements (DOE) Sales Value Share by Application, 2023 VS 2030

7.21 Turkey

7.21.1 Global Diffractive Optical Elements (DOE) Sales Value Growth Rate (2019-2030)

7.21.2 Global Diffractive Optical Elements (DOE) Sales Value Share by Type, 2023 VS 2030

7.21.3 Global Diffractive Optical Elements (DOE) Sales Value Share by Application, 2023 VS 2030

7.22 Saudi Arabia

7.22.1 Global Diffractive Optical Elements (DOE) Sales Value Growth Rate (2019-2030)

7.22.2 Global Diffractive Optical Elements (DOE) Sales Value Share by Type, 2023 VS 2030

7.22.3 Global Diffractive Optical Elements (DOE) Sales Value Share by Application, 2023 VS 2030

7.23 UAE

7.23.1 Global Diffractive Optical Elements (DOE) Sales Value Growth Rate (2019-2030)

7.23.2 Global Diffractive Optical Elements (DOE) Sales Value Share by Type, 2023 VS 2030

7.23.3 Global Diffractive Optical Elements (DOE) Sales Value Share by Application, 2023 VS 2030

8 COMPANY PROFILES

8.1 Holo/Or Ltd.

8.1.1 Holo/Or Ltd. Company Information

8.1.2 Holo/Or Ltd. Business Overview

8.1.3 Holo/Or Ltd. Diffractive Optical Elements (DOE) Sales, Value and Gross Margin (2019-2024)

8.1.4 Holo/Or Ltd. Diffractive Optical Elements (DOE) Product Portfolio

8.1.5 Holo/Or Ltd. Recent Developments

8.2 HORIBA

8.2.1 HORIBA Company Information

8.2.2 HORIBA Business Overview

8.2.3 HORIBA Diffractive Optical Elements (DOE) Sales, Value and Gross Margin (2019-2024)

8.2.4 HORIBA Diffractive Optical Elements (DOE) Product Portfolio

8.2.5 HORIBA Recent Developments

8.3 Newport Corporation

8.3.1 Newport Corporation Company Information

8.3.2 Newport Corporation Business Overview

8.3.3 Newport Corporation Diffractive Optical Elements (DOE) Sales, Value and Gross

Margin (2019-2024)

8.3.4 Newport Corporation Diffractive Optical Elements (DOE) Product Portfolio

8.3.5 Newport Corporation Recent Developments

8.4 Jenoptik

8.4.1 Jenoptik Company Information

8.4.2 Jenoptik Business Overview

8.4.3 Jenoptik Diffractive Optical Elements (DOE) Sales, Value and Gross Margin (2019-2024)

8.4.4 Jenoptik Diffractive Optical Elements (DOE) Product Portfolio

8.4.5 Jenoptik Recent Developments

8.5 Photop Technologies (II-VI Incorporated)

8.5.1 Photop Technologies (II-VI Incorporated) Company Information

8.5.2 Photop Technologies (II-VI Incorporated) Business Overview

8.5.3 Photop Technologies (II-VI Incorporated) Diffractive Optical Elements (DOE) Sales, Value and Gross Margin (2019-2024)

8.5.4 Photop Technologies (II-VI Incorporated) Diffractive Optical Elements (DOE)

Product Portfolio

8.5.5 Photop Technologies (II-VI Incorporated) Recent Developments

8.6 Shimadzu Corporation

8.6.1 Shimadzu Corporation Company Information

8.6.2 Shimadzu Corporation Business Overview

8.6.3 Shimadzu Corporation Diffractive Optical Elements (DOE) Sales, Value and Gross Margin (2019-2024)

8.6.4 Shimadzu Corporation Diffractive Optical Elements (DOE) Product Portfolio

8.6.5 Shimadzu Corporation Recent Developments

8.7 Zeiss

8.7.1 Zeiss Company Information

8.7.2 Zeiss Business Overview

8.7.3 Zeiss Diffractive Optical Elements (DOE) Sales, Value and Gross Margin (2019-2024)

8.7.4 Zeiss Diffractive Optical Elements (DOE) Product Portfolio

8.7.5 Zeiss Recent Developments

8.8 SUSS MicroTec AG.

8.8.1 SUSS MicroTec AG. Company Information

8.8.2 SUSS MicroTec AG. Business Overview

8.8.3 SUSS MicroTec AG. Diffractive Optical Elements (DOE) Sales, Value and Gross Margin (2019-2024)

8.8.4 SUSS MicroTec AG. Diffractive Optical Elements (DOE) Product Portfolio

8.8.5 SUSS MicroTec AG. Recent Developments

8.9 Lightsmyth (Finisar)

8.9.1 Lightsmyth (Finisar) Company Information

8.9.2 Lightsmyth (Finisar) Business Overview

8.9.3 Lightsmyth (Finisar) Diffractive Optical Elements (DOE) Sales, Value and Gross Margin (2019-2024)

8.9.4 Lightsmyth (Finisar) Diffractive Optical Elements (DOE) Product Portfolio

8.9.5 Lightsmyth (Finisar) Recent Developments

8.10 Edmund Optics

8.10.1 Edmund Optics Company Information

8.10.2 Edmund Optics Business Overview

8.10.3 Edmund Optics Diffractive Optical Elements (DOE) Sales, Value and Gross Margin (2019-2024)

8.10.4 Edmund Optics Diffractive Optical Elements (DOE) Product Portfolio

8.10.5 Edmund Optics Recent Developments

8.11 Optometrics (Dynasil)

8.11.1 Optometrics (Dynasil) Company Information

8.11.2 Optometrics (Dynasil) Business Overview

8.11.3 Optometrics (Dynasil) Diffractive Optical Elements (DOE) Sales, Value and Gross Margin (2019-2024)

8.11.4 Optometrics (Dynasil) Diffractive Optical Elements (DOE) Product Portfolio

8.11.5 Optometrics (Dynasil) Recent Developments

8.12 Headwall Photonics

8.12.1 Headwall Photonics Company Information

8.12.2 Headwall Photonics Business Overview

8.12.3 Headwall Photonics Diffractive Optical Elements (DOE) Sales, Value and Gross Margin (2019-2024)

8.12.4 Headwall Photonics Diffractive Optical Elements (DOE) Product Portfolio

8.12.5 Headwall Photonics Recent Developments

8.13 Plymouth Grating Lab

8.13.1 Plymouth Grating Lab Company Information

8.13.2 Plymouth Grating Lab Business Overview

8.13.3 Plymouth Grating Lab Diffractive Optical Elements (DOE) Sales, Value and Gross Margin (2019-2024)

8.13.4 Plymouth Grating Lab Diffractive Optical Elements (DOE) Product Portfolio

8.13.5 Plymouth Grating Lab Recent Developments

8.14 Wasatch Photonics

8.14.1 Wasatch Photonics Company Information

8.14.2 Wasatch Photonics Business Overview

8.14.3 Wasatch Photonics Diffractive Optical Elements (DOE) Sales, Value and Gross

Margin (2019-2024)

8.14.4 Wasatch Photonics Diffractive Optical Elements (DOE) Product Portfolio

8.14.5 Wasatch Photonics Recent Developments

8.15 Spectrogon AB

8.15.1 Spectrogon AB Company Information

8.15.2 Spectrogon AB Business Overview

8.15.3 Spectrogon AB Diffractive Optical Elements (DOE) Sales, Value and Gross

Margin (2019-2024)

8.15.4 Spectrogon AB Diffractive Optical Elements (DOE) Product Portfolio

8.15.5 Spectrogon AB Recent Developments

8.16 SILIOS Technologies

8.16.1 SILIOS Technologies Company Information

8.16.2 SILIOS Technologies Business Overview

8.16.3 SILIOS Technologies Diffractive Optical Elements (DOE) Sales, Value and

Gross Margin (2019-2024)

8.16.4 SILIOS Technologies Diffractive Optical Elements (DOE) Product Portfolio

8.16.5 SILIOS Technologies Recent Developments

8.17 GratingWorks

8.17.1 GratingWorks Company Information

8.17.2 GratingWorks Business Overview

8.17.3 GratingWorks Diffractive Optical Elements (DOE) Sales, Value and Gross

Margin (2019-2024)

8.17.4 GratingWorks Diffractive Optical Elements (DOE) Product Portfolio

8.17.5 GratingWorks Recent Developments

9 VALUE CHAIN AND SALES CHANNELS ANALYSIS

9.1 Diffractive Optical Elements (DOE) Value Chain Analysis

9.1.1 Diffractive Optical Elements (DOE) Key Raw Materials

9.1.2 Raw Materials Key Suppliers

9.1.3 Manufacturing Cost Structure

9.1.4 Diffractive Optical Elements (DOE) Sales Mode & Process

9.2 Diffractive Optical Elements (DOE) Sales Channels Analysis

9.2.1 Direct Comparison with Distribution Share

9.2.2 Diffractive Optical Elements (DOE) Distributors

9.2.3 Diffractive Optical Elements (DOE) Customers

10 CONCLUDING INSIGHTS

11 APPENDIX

11.1 Reasons for Doing This Study

11.2 Research Methodology

11.3 Research Process

11.4 Authors List of This Report

11.5 Data Source

11.5.1 Secondary Sources

11.5.2 Primary Sources

List Of Tables

LIST OF TABLES

- Table 1. Diffractive Optical Elements (DOE) Industry Trends
- Table 2. Diffractive Optical Elements (DOE) Industry Drivers
- Table 3. Diffractive Optical Elements (DOE) Industry Opportunities and Challenges
- Table 4. Diffractive Optical Elements (DOE) Industry Restraints
- Table 5. Global Diffractive Optical Elements (DOE) Revenue by Company (US\$ Million) & (2019-2024)
- Table 6. Global Diffractive Optical Elements (DOE) Revenue Share by Company (2019-2024)
- Table 7. Global Diffractive Optical Elements (DOE) Sales Volume by Company (K Units) & (2019-2024)
- Table 8. Global Diffractive Optical Elements (DOE) Sales Volume Share by Company (2019-2024)
- Table 9. Global Diffractive Optical Elements (DOE) Average Price (USD/Unit) of Company (2019-2024)
- Table 10. Global Diffractive Optical Elements (DOE) Company Ranking, 2022 VS 2023 VS 2024 & (US\$ Million)
- Table 11. Global Diffractive Optical Elements (DOE) Key Company Manufacturing Base & Headquarters
- Table 12. Global Diffractive Optical Elements (DOE) Company, Product Type & Application
- Table 13. Global Diffractive Optical Elements (DOE) Company Commercialization Time
- Table 14. Global Company Market Concentration Ratio (CR5 and HHI)
- Table 15. Global Diffractive Optical Elements (DOE) by Company Type (Tier 1, Tier 2, and Tier 3) & (Based on Revenue of 2023)
- Table 16. Mergers & Acquisitions, Expansion
- Table 17. Major Companies of Beam Shaping (Top-Hat)
- Table 18. Major Companies of Beam Splitting
- Table 19. Major Companies of Beam Foci
- Table 20. Global Diffractive Optical Elements (DOE) Sales Volume by Type 2019 VS 2023 VS 2030 (K Units)
- Table 21. Global Diffractive Optical Elements (DOE) Sales Volume by Type (2019-2024) & (K Units)
- Table 22. Global Diffractive Optical Elements (DOE) Sales Volume by Type (2025-2030) & (K Units)
- Table 23. Global Diffractive Optical Elements (DOE) Sales Volume Share by Type

(2019-2024)

Table 24. Global Diffractive Optical Elements (DOE) Sales Volume Share by Type (2025-2030)

Table 25. Global Diffractive Optical Elements (DOE) Sales Value by Type 2019 VS 2023 VS 2030 (US\$ Million)

Table 26. Global Diffractive Optical Elements (DOE) Sales Value by Type (2019-2024) & (US\$ Million)

Table 27. Global Diffractive Optical Elements (DOE) Sales Value by Type (2025-2030) & (US\$ Million)

Table 28. Global Diffractive Optical Elements (DOE) Sales Value Share by Type (2019-2024)

Table 29. Global Diffractive Optical Elements (DOE) Sales Value Share by Type (2025-2030)

Table 30. Major Companies of Laser Material Processing

Table 31. Major Companies of Biomedical Equipment

Table 32. Major Companies of Others

Table 33. Global Diffractive Optical Elements (DOE) Sales Volume by Application 2019 VS 2023 VS 2030 (K Units)

Table 34. Global Diffractive Optical Elements (DOE) Sales Volume by Application (2019-2024) & (K Units)

Table 35. Global Diffractive Optical Elements (DOE) Sales Volume by Application (2025-2030) & (K Units)

Table 36. Global Diffractive Optical Elements (DOE) Sales Volume Share by Application (2019-2024)

Table 37. Global Diffractive Optical Elements (DOE) Sales Volume Share by Application (2025-2030)

Table 38. Global Diffractive Optical Elements (DOE) Sales Value by Application 2019 VS 2023 VS 2030 (US\$ Million)

Table 39. Global Diffractive Optical Elements (DOE) Sales Value by Application (2019-2024) & (US\$ Million)

Table 40. Global Diffractive Optical Elements (DOE) Sales Value by Application (2025-2030) & (US\$ Million)

Table 41. Global Diffractive Optical Elements (DOE) Sales Value Share by Application (2019-2024)

Table 42. Global Diffractive Optical Elements (DOE) Sales Value Share by Application (2025-2030)

Table 43. Global Diffractive Optical Elements (DOE) Sales by Region: 2019 VS 2023 VS 2030 (K Units)

Table 44. Global Diffractive Optical Elements (DOE) Sales by Region (2019-2024) & (K

Units)

Table 45. Global Diffractive Optical Elements (DOE) Sales Market Share by Region (2019-2024)

Table 46. Global Diffractive Optical Elements (DOE) Sales by Region (2025-2030) & (K Units)

Table 47. Global Diffractive Optical Elements (DOE) Sales Market Share by Region (2025-2030)

Table 48. Global Diffractive Optical Elements (DOE) Sales Value Comparison by Region: 2019 VS 2023 VS 2030 (US\$ Million)

Table 49. Global Diffractive Optical Elements (DOE) Sales Value by Region (2019-2024) & (US\$ Million)

Table 50. Global Diffractive Optical Elements (DOE) Sales Value Share by Region (2019-2024)

Table 51. Global Diffractive Optical Elements (DOE) Sales Value by Region (2025-2030) & (US\$ Million)

Table 52. Global Diffractive Optical Elements (DOE) Sales Value Share by Region (2025-2030)

Table 53. Global Diffractive Optical Elements (DOE) Market Average Price (USD/Unit) by Region (2019-2024)

Table 54. Global Diffractive Optical Elements (DOE) Market Average Price (USD/Unit) by Region (2025-2030)

Table 55. Global Diffractive Optical Elements (DOE) Sales by Country: 2019 VS 2023 VS 2030 (K Units)

Table 56. Global Diffractive Optical Elements (DOE) Sales Value by Country: 2019 VS 2023 VS 2030 (US\$ Million)

Table 57. Global Diffractive Optical Elements (DOE) Sales by Country (2019-2024) & (K Units)

Table 58. Global Diffractive Optical Elements (DOE) Sales Market Share by Country (2019-2024)

Table 59. Global Diffractive Optical Elements (DOE) Sales by Country (2025-2030) & (K Units)

Table 60. Global Diffractive Optical Elements (DOE) Sales Market Share by Country (2025-2030)

Table 61. Global Diffractive Optical Elements (DOE) Sales Value by Country (2019-2024) & (US\$ Million)

Table 62. Global Diffractive Optical Elements (DOE) Sales Value Market Share by Country (2019-2024)

Table 63. Global Diffractive Optical Elements (DOE) Sales Value by Country (2025-2030) & (US\$ Million)

Table 64. Global Diffractive Optical Elements (DOE) Sales Value Market Share by Country (2025-2030)

Table 65. Holo/Or Ltd. Company Information

Table 66. Holo/Or Ltd. Business Overview

Table 67. Holo/Or Ltd. Diffractive Optical Elements (DOE) Sales (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 68. Holo/Or Ltd. Diffractive Optical Elements (DOE) Product Portfolio

Table 69. Holo/Or Ltd. Recent Development

Table 70. HORIBA Company Information

Table 71. HORIBA Business Overview

Table 72. HORIBA Diffractive Optical Elements (DOE) Sales (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 73. HORIBA Diffractive Optical Elements (DOE) Product Portfolio

Table 74. HORIBA Recent Development

Table 75. Newport Corporation Company Information

Table 76. Newport Corporation Business Overview

Table 77. Newport Corporation Diffractive Optical Elements (DOE) Sales (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 78. Newport Corporation Diffractive Optical Elements (DOE) Product Portfolio

Table 79. Newport Corporation Recent Development

Table 80. Jenoptik Company Information

Table 81. Jenoptik Business Overview

Table 82. Jenoptik Diffractive Optical Elements (DOE) Sales (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 83. Jenoptik Diffractive Optical Elements (DOE) Product Portfolio

Table 84. Jenoptik Recent Development

Table 85. Photop Technologies (II-VI Incorporated) Company Information

Table 86. Photop Technologies (II-VI Incorporated) Business Overview

Table 87. Photop Technologies (II-VI Incorporated) Diffractive Optical Elements (DOE) Sales (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 88. Photop Technologies (II-VI Incorporated) Diffractive Optical Elements (DOE) Product Portfolio

Table 89. Photop Technologies (II-VI Incorporated) Recent Development

Table 90. Shimadzu Corporation Company Information

Table 91. Shimadzu Corporation Business Overview

Table 92. Shimadzu Corporation Diffractive Optical Elements (DOE) Sales (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 93. Shimadzu Corporation Diffractive Optical Elements (DOE) Product Portfolio

Table 94. Shimadzu Corporation Recent Development

Table 95. Zeiss Company Information

Table 96. Zeiss Business Overview

Table 97. Zeiss Diffractive Optical Elements (DOE) Sales (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 98. Zeiss Diffractive Optical Elements (DOE) Product Portfolio

Table 99. Zeiss Recent Development

Table 100. SUSS MicroTec AG. Company Information

Table 101. SUSS MicroTec AG. Business Overview

Table 102. SUSS MicroTec AG. Diffractive Optical Elements (DOE) Sales (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 103. SUSS MicroTec AG. Diffractive Optical Elements (DOE) Product Portfolio

Table 104. SUSS MicroTec AG. Recent Development

Table 105. Lightsmyth (Finisar) Company Information

Table 106. Lightsmyth (Finisar) Business Overview

Table 107. Lightsmyth (Finisar) Diffractive Optical Elements (DOE) Sales (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 108. Lightsmyth (Finisar) Diffractive Optical Elements (DOE) Product Portfolio

Table 109. Lightsmyth (Finisar) Recent Development

Table 110. Edmund Optics Company Information

Table 111. Edmund Optics Business Overview

Table 112. Edmund Optics Diffractive Optical Elements (DOE) Sales (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 113. Edmund Optics Diffractive Optical Elements (DOE) Product Portfolio

Table 114. Edmund Optics Recent Development

Table 115. Optometrics (Dynasil) Company Information

Table 116. Optometrics (Dynasil) Business Overview

Table 117. Optometrics (Dynasil) Diffractive Optical Elements (DOE) Sales (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 118. Optometrics (Dynasil) Diffractive Optical Elements (DOE) Product Portfolio

Table 119. Optometrics (Dynasil) Recent Development

Table 120. Headwall Photonics Company Information

Table 121. Headwall Photonics Business Overview

Table 122. Headwall Photonics Diffractive Optical Elements (DOE) Sales (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 123. Headwall Photonics Diffractive Optical Elements (DOE) Product Portfolio

Table 124. Headwall Photonics Recent Development

Table 125. Plymouth Grating Lab Company Information

Table 126. Plymouth Grating Lab Business Overview

Table 127. Plymouth Grating Lab Diffractive Optical Elements (DOE) Sales (K Units),

Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 128. Plymouth Grating Lab Diffractive Optical Elements (DOE) Product Portfolio

Table 129. Plymouth Grating Lab Recent Development

Table 130. Wasatch Photonics Company Information

Table 131. Wasatch Photonics Business Overview

Table 132. Wasatch Photonics Diffractive Optical Elements (DOE) Sales (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 133. Wasatch Photonics Diffractive Optical Elements (DOE) Product Portfolio

Table 134. Wasatch Photonics Recent Development

Table 135. Spectrogon AB Company Information

Table 136. Spectrogon AB Business Overview

Table 137. Spectrogon AB Diffractive Optical Elements (DOE) Sales (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 138. Spectrogon AB Diffractive Optical Elements (DOE) Product Portfolio

Table 139. Spectrogon AB Recent Development

Table 140. SILIOS Technologies Company Information

Table 141. SILIOS Technologies Business Overview

Table 142. SILIOS Technologies Diffractive Optical Elements (DOE) Sales (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 143. SILIOS Technologies Diffractive Optical Elements (DOE) Product Portfolio

Table 144. SILIOS Technologies Recent Development

Table 145. GratingWorks Company Information

Table 146. GratingWorks Business Overview

Table 147. GratingWorks Diffractive Optical Elements (DOE) Sales (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 148. GratingWorks Diffractive Optical Elements (DOE) Product Portfolio

Table 149. GratingWorks Recent Development

Table 150. Key Raw Materials

Table 151. Raw Materials Key Sup

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