

# Global Diffraction Gratings Market Analysis and Forecast 2024-2030

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## Abstracts

### Summary

A diffraction grating is an optical element that diffracts energy into its constituent wavelengths. The groove density, depth and profile of a diffraction grating dictate the spectral range, efficiency, resolution and performance of the diffraction grating. A diffraction grating is a periodically structure of subsequent most evenly spaced grating lines. Those grooves or opaque lines diffract the incident light depending on its periodicity and microstructure. Depending on the light's incidence angle, rainbow-colored patterns are discernible on a projection surface behind a transmission or reflection grating (except for gratings of the zero order). The colored patterns are known as optical spectrum. It is used as the key component in optical spectroscopy, telecommunication multiplexing or laser systems. Fiber Bragg Grating is not included in this report.

According to APO Research, The global Diffraction Gratings 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.

The US & Canada market for Diffraction Gratings 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 Diffraction Gratings 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 Diffraction Gratings 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 Diffraction Gratings 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 Diffraction Gratings include HORIBA, MKS Instruments(Newport Corporation), Edmund Optics, Shimadzu Corporation, Kaiser Optical Systems, Lightsmyth (Finisar), Plymouth Grating Lab, Zeiss and Optometrics (Dynasil), etc. In 2023, the world's top three vendors accounted for approximately % of the revenue.

In terms of production side, this report researches the Diffraction Gratings production, growth rate, market share by manufacturers and by region (region level and country level), from 2019 to 2024, and forecast to 2030.

In terms of consumption side, this report focuses on the sales of Diffraction Gratings by region (region level and country level), by Company, by Type and by Application. from 2019 to 2024 and forecast to 2030.

This report presents an overview of global market for Diffraction Gratings, capacity, output, 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 Diffraction Gratings, also provides the consumption of main regions and countries. Of the upcoming market potential for Diffraction Gratings, 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 Diffraction Gratings sales, revenue, market share and industry ranking of main manufacturers, data from 2019 to 2024. Identification of the major stakeholders in the global Diffraction Gratings 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 Diffraction Gratings sales, projected growth trends, production technology, application and end-user industry.

### Diffraction Gratings segment by Company

HORIBA

MKS Instruments(Newport Corporation)

Edmund Optics

Shimadzu Corporation

Kaiser Optical Systems

Lightsmyth (Finisar)

Plymouth Grating Lab

Zeiss

Optometrics (Dynasil)

Headwall Photonics

Spectrogon AB

Jenoptik

Spectrum Scientific

Photop Technologies

Wasatch Photonics

GratingWorks

Shenyang Yibeite Optics

#### Diffraction Gratings segment by Type

Ruled Gratings

Holographic Gratings

#### Diffraction Gratings segment by Application

Monochromator and Spectrometer

Laser

Optical Telecom

Astronomy

Others

#### Diffraction Gratings 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 status and future forecast, involving, production, value, consumption, growth rate (CAGR), market share, historical and forecast.
2. To present the key manufacturers, capacity, production, 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 market potential and advantage, opportunity and challenge, restraints, and risks.
5. To identify significant trends, drivers, influence factors in global and regions.
6. To analyze 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 Diffraction Gratings 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 Diffraction Gratings 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 volume 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 Diffraction Gratings.

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

## Chapter Outline

Chapter 1: Introduces the report scope of the report, executive summary of different market segments (by type and by application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the market and its likely evolution in the short to mid-term, and long term.

Chapter 2: Introduces the market dynamics, latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 3: Diffraction Gratings production/output of global and key producers (regions/countries). It provides a quantitative analysis of the production, and development potential of each producer in the next six years.

Chapter 4: Sales (consumption), revenue of Diffraction Gratings in global, regional level and country level. It provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space of each country in the world.

Chapter 5: Detailed analysis of Diffraction Gratings manufacturers competitive landscape, price, sales, revenue, market share and industry ranking, latest development plan, merger, and acquisition information, etc.

Chapter 6: Provides the analysis of various market segments by type, covering the

sales, revenue, average price, and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7: Provides the analysis of various market segments by application, covering the sales, revenue, average price, and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8: Provides profiles of key manufacturers, introducing the basic situation of the main companies in the market in detail, including product descriptions and specifications, Diffraction Gratings sales, revenue, price, gross margin, and recent development, etc.

Chapter 9: North America (US & Canada) by type, by application and by country, sales, and revenue for each segment.

Chapter 10: Europe by type, by application and by country, sales, and revenue for each segment.

Chapter 11: China by type, by application, sales, and revenue for each segment.

Chapter 12: Asia (Excluding China) by type, by application and by region, sales, and revenue for each segment.

Chapter 13: Middle East, Africa, Latin America by type, by application and by country, sales, and revenue for each segment.

Chapter 14: Analysis of industrial chain, sales channel, key raw materials, distributors and customers.

Chapter 15: The main concluding insights of the report.



## Contents

### **1 MARKET OVERVIEW**

- 1.1 Product Definition
- 1.2 Diffraction Gratings Market by Type
  - 1.2.1 Global Diffraction Gratings Market Size by Type, 2019 VS 2023 VS 2030
  - 1.2.2 Ruled Gratings
  - 1.2.3 Holographic Gratings
- 1.3 Diffraction Gratings Market by Application
  - 1.3.1 Global Diffraction Gratings Market Size by Application, 2019 VS 2023 VS 2030
  - 1.3.2 Monochromator and Spectrometer
  - 1.3.3 Laser
  - 1.3.4 Optical Telecom
  - 1.3.5 Astronomy
  - 1.3.6 Others
- 1.4 Assumptions and Limitations
- 1.5 Study Goals and Objectives

### **2 DIFFRACTION GRATINGS MARKET DYNAMICS**

- 2.1 Diffraction Gratings Industry Trends
- 2.2 Diffraction Gratings Industry Drivers
- 2.3 Diffraction Gratings Industry Opportunities and Challenges
- 2.4 Diffraction Gratings Industry Restraints

### **3 GLOBAL DIFFRACTION GRATINGS PRODUCTION OVERVIEW**

- 3.1 Global Diffraction Gratings Production Capacity (2019-2030)
- 3.2 Global Diffraction Gratings Production by Region: 2019 VS 2023 VS 2030
- 3.3 Global Diffraction Gratings Production by Region
  - 3.3.1 Global Diffraction Gratings Production by Region (2019-2024)
  - 3.3.2 Global Diffraction Gratings Production by Region (2025-2030)
  - 3.3.3 Global Diffraction Gratings Production Market Share by Region (2019-2030)
- 3.4 North America
- 3.5 Europe
- 3.6 China
- 3.7 Japan
- 3.8 Southeast Asia

### 3.9 India

## 4 GLOBAL MARKET GROWTH PROSPECTS

### 4.1 Global Diffraction Gratings Revenue Estimates and Forecasts (2019-2030)

### 4.2 Global Diffraction Gratings Revenue by Region

#### 4.2.1 Global Diffraction Gratings Revenue by Region: 2019 VS 2023 VS 2030

#### 4.2.2 Global Diffraction Gratings Revenue by Region (2019-2024)

#### 4.2.3 Global Diffraction Gratings Revenue by Region (2025-2030)

#### 4.2.4 Global Diffraction Gratings Revenue Market Share by Region (2019-2030)

### 4.3 Global Diffraction Gratings Sales Estimates and Forecasts 2019-2030

### 4.4 Global Diffraction Gratings Sales by Region

#### 4.4.1 Global Diffraction Gratings Sales by Region: 2019 VS 2023 VS 2030

#### 4.4.2 Global Diffraction Gratings Sales by Region (2019-2024)

#### 4.4.3 Global Diffraction Gratings Sales by Region (2025-2030)

#### 4.4.4 Global Diffraction Gratings Sales Market Share by Region (2019-2030)

### 4.5 US & Canada

### 4.6 Europe

### 4.7 China

### 4.8 Asia (Excluding China)

### 4.9 Middle East, Africa and Latin America

## 5 MARKET COMPETITIVE LANDSCAPE BY MANUFACTURERS

### 5.1 Global Diffraction Gratings Revenue by Manufacturers

#### 5.1.1 Global Diffraction Gratings Revenue by Manufacturers (2019-2024)

#### 5.1.2 Global Diffraction Gratings Revenue Market Share by Manufacturers (2019-2024)

#### 5.1.3 Global Diffraction Gratings Manufacturers Revenue Share Top 10 and Top 5 in 2023

### 5.2 Global Diffraction Gratings Sales by Manufacturers

#### 5.2.1 Global Diffraction Gratings Sales by Manufacturers (2019-2024)

#### 5.2.2 Global Diffraction Gratings Sales Market Share by Manufacturers (2019-2024)

#### 5.2.3 Global Diffraction Gratings Manufacturers Sales Share Top 10 and Top 5 in 2023

### 5.3 Global Diffraction Gratings Sales Price by Manufacturers (2019-2024)

### 5.4 Global Diffraction Gratings Key Manufacturers Ranking, 2022 VS 2023 VS 2024

### 5.5 Global Diffraction Gratings Key Manufacturers Manufacturing Sites & Headquarters

### 5.6 Global Diffraction Gratings Manufacturers, Product Type & Application

### 5.7 Global Diffraction Gratings Manufacturers Commercialization Time

## 5.8 Market Competitive Analysis

5.8.1 Global Diffraction Gratings Market CR5 and HHI

5.8.2 2023 Diffraction Gratings Tier 1, Tier 2, and Tier

## 6 DIFFRACTION GRATINGS MARKET BY TYPE

### 6.1 Global Diffraction Gratings Revenue by Type

6.1.1 Global Diffraction Gratings Revenue by Type (2019 VS 2023 VS 2030)

6.1.2 Global Diffraction Gratings Revenue by Type (2019-2030) & (US\$ Million)

6.1.3 Global Diffraction Gratings Revenue Market Share by Type (2019-2030)

### 6.2 Global Diffraction Gratings Sales by Type

6.2.1 Global Diffraction Gratings Sales by Type (2019 VS 2023 VS 2030)

6.2.2 Global Diffraction Gratings Sales by Type (2019-2030) & (K Units)

6.2.3 Global Diffraction Gratings Sales Market Share by Type (2019-2030)

### 6.3 Global Diffraction Gratings Price by Type

## 7 DIFFRACTION GRATINGS MARKET BY APPLICATION

### 7.1 Global Diffraction Gratings Revenue by Application

7.1.1 Global Diffraction Gratings Revenue by Application (2019 VS 2023 VS 2030)

7.1.2 Global Diffraction Gratings Revenue by Application (2019-2030) & (US\$ Million)

7.1.3 Global Diffraction Gratings Revenue Market Share by Application (2019-2030)

### 7.2 Global Diffraction Gratings Sales by Application

7.2.1 Global Diffraction Gratings Sales by Application (2019 VS 2023 VS 2030)

7.2.2 Global Diffraction Gratings Sales by Application (2019-2030) & (K Units)

7.2.3 Global Diffraction Gratings Sales Market Share by Application (2019-2030)

### 7.3 Global Diffraction Gratings Price by Application

## 8 COMPANY PROFILES

### 8.1 HORIBA

8.1.1 HORIBA Company Information

8.1.2 HORIBA Business Overview

8.1.3 HORIBA Diffraction Gratings Sales, Revenue, Price and Gross Margin (2019-2024)

8.1.4 HORIBA Diffraction Gratings Product Portfolio

8.1.5 HORIBA Recent Developments

### 8.2 MKS Instruments(Newport Corporation)

8.2.1 MKS Instruments(Newport Corporation) Company Information

- 8.2.2 MKS Instruments(Newport Corporation) Business Overview
- 8.2.3 MKS Instruments(Newport Corporation) Diffraction Gratings Sales, Revenue, Price and Gross Margin (2019-2024)
- 8.2.4 MKS Instruments(Newport Corporation) Diffraction Gratings Product Portfolio
- 8.2.5 MKS Instruments(Newport Corporation) Recent Developments
- 8.3 Edmund Optics
  - 8.3.1 Edmund Optics Comapny Information
  - 8.3.2 Edmund Optics Business Overview
  - 8.3.3 Edmund Optics Diffraction Gratings Sales, Revenue, Price and Gross Margin (2019-2024)
  - 8.3.4 Edmund Optics Diffraction Gratings Product Portfolio
  - 8.3.5 Edmund Optics Recent Developments
- 8.4 Shimadzu Corporation
  - 8.4.1 Shimadzu Corporation Comapny Information
  - 8.4.2 Shimadzu Corporation Business Overview
  - 8.4.3 Shimadzu Corporation Diffraction Gratings Sales, Revenue, Price and Gross Margin (2019-2024)
  - 8.4.4 Shimadzu Corporation Diffraction Gratings Product Portfolio
  - 8.4.5 Shimadzu Corporation Recent Developments
- 8.5 Kaiser Optical Systems
  - 8.5.1 Kaiser Optical Systems Comapny Information
  - 8.5.2 Kaiser Optical Systems Business Overview
  - 8.5.3 Kaiser Optical Systems Diffraction Gratings Sales, Revenue, Price and Gross Margin (2019-2024)
  - 8.5.4 Kaiser Optical Systems Diffraction Gratings Product Portfolio
  - 8.5.5 Kaiser Optical Systems Recent Developments
- 8.6 Lightsmyth (Finisar)
  - 8.6.1 Lightsmyth (Finisar) Comapny Information
  - 8.6.2 Lightsmyth (Finisar) Business Overview
  - 8.6.3 Lightsmyth (Finisar) Diffraction Gratings Sales, Revenue, Price and Gross Margin (2019-2024)
  - 8.6.4 Lightsmyth (Finisar) Diffraction Gratings Product Portfolio
  - 8.6.5 Lightsmyth (Finisar) Recent Developments
- 8.7 Plymouth Grating Lab
  - 8.7.1 Plymouth Grating Lab Comapny Information
  - 8.7.2 Plymouth Grating Lab Business Overview
  - 8.7.3 Plymouth Grating Lab Diffraction Gratings Sales, Revenue, Price and Gross Margin (2019-2024)
  - 8.7.4 Plymouth Grating Lab Diffraction Gratings Product Portfolio

- 8.7.5 Plymouth Grating Lab Recent Developments
- 8.8 Zeiss
  - 8.8.1 Zeiss Company Information
  - 8.8.2 Zeiss Business Overview
  - 8.8.3 Zeiss Diffraction Gratings Sales, Revenue, Price and Gross Margin (2019-2024)
  - 8.8.4 Zeiss Diffraction Gratings Product Portfolio
  - 8.8.5 Zeiss Recent Developments
- 8.9 Optometrics (Dynasil)
  - 8.9.1 Optometrics (Dynasil) Company Information
  - 8.9.2 Optometrics (Dynasil) Business Overview
  - 8.9.3 Optometrics (Dynasil) Diffraction Gratings Sales, Revenue, Price and Gross Margin (2019-2024)
  - 8.9.4 Optometrics (Dynasil) Diffraction Gratings Product Portfolio
  - 8.9.5 Optometrics (Dynasil) Recent Developments
- 8.10 Headwall Photonics
  - 8.10.1 Headwall Photonics Company Information
  - 8.10.2 Headwall Photonics Business Overview
  - 8.10.3 Headwall Photonics Diffraction Gratings Sales, Revenue, Price and Gross Margin (2019-2024)
  - 8.10.4 Headwall Photonics Diffraction Gratings Product Portfolio
  - 8.10.5 Headwall Photonics Recent Developments
- 8.11 Spectrogon AB
  - 8.11.1 Spectrogon AB Company Information
  - 8.11.2 Spectrogon AB Business Overview
  - 8.11.3 Spectrogon AB Diffraction Gratings Sales, Revenue, Price and Gross Margin (2019-2024)
  - 8.11.4 Spectrogon AB Diffraction Gratings Product Portfolio
  - 8.11.5 Spectrogon AB Recent Developments
- 8.12 Jenoptik
  - 8.12.1 Jenoptik Company Information
  - 8.12.2 Jenoptik Business Overview
  - 8.12.3 Jenoptik Diffraction Gratings Sales, Revenue, Price and Gross Margin (2019-2024)
  - 8.12.4 Jenoptik Diffraction Gratings Product Portfolio
  - 8.12.5 Jenoptik Recent Developments
- 8.13 Spectrum Scientific
  - 8.13.1 Spectrum Scientific Company Information
  - 8.13.2 Spectrum Scientific Business Overview
  - 8.13.3 Spectrum Scientific Diffraction Gratings Sales, Revenue, Price and Gross

#### Margin (2019-2024)

8.13.4 Spectrum Scientific Diffraction Gratings Product Portfolio

8.13.5 Spectrum Scientific Recent Developments

#### 8.14 Photop Technologies

8.14.1 Photop Technologies Company Information

8.14.2 Photop Technologies Business Overview

8.14.3 Photop Technologies Diffraction Gratings Sales, Revenue, Price and Gross

#### Margin (2019-2024)

8.14.4 Photop Technologies Diffraction Gratings Product Portfolio

8.14.5 Photop Technologies Recent Developments

#### 8.15 Wasatch Photonics

8.15.1 Wasatch Photonics Company Information

8.15.2 Wasatch Photonics Business Overview

8.15.3 Wasatch Photonics Diffraction Gratings Sales, Revenue, Price and Gross

#### Margin (2019-2024)

8.15.4 Wasatch Photonics Diffraction Gratings Product Portfolio

8.15.5 Wasatch Photonics Recent Developments

#### 8.16 GratingWorks

8.16.1 GratingWorks Company Information

8.16.2 GratingWorks Business Overview

8.16.3 GratingWorks Diffraction Gratings Sales, Revenue, Price and Gross Margin

#### (2019-2024)

8.16.4 GratingWorks Diffraction Gratings Product Portfolio

8.16.5 GratingWorks Recent Developments

#### 8.17 Shenyang Yibeite Optics

8.17.1 Shenyang Yibeite Optics Company Information

8.17.2 Shenyang Yibeite Optics Business Overview

8.17.3 Shenyang Yibeite Optics Diffraction Gratings Sales, Revenue, Price and Gross

#### Margin (2019-2024)

8.17.4 Shenyang Yibeite Optics Diffraction Gratings Product Portfolio

8.17.5 Shenyang Yibeite Optics Recent Developments

## 9 NORTH AMERICA

### 9.1 North America Diffraction Gratings Market Size by Type

9.1.1 North America Diffraction Gratings Revenue by Type (2019-2030)

9.1.2 North America Diffraction Gratings Sales by Type (2019-2030)

9.1.3 North America Diffraction Gratings Price by Type (2019-2030)

### 9.2 North America Diffraction Gratings Market Size by Application

- 9.2.1 North America Diffraction Gratings Revenue by Application (2019-2030)
- 9.2.2 North America Diffraction Gratings Sales by Application (2019-2030)
- 9.2.3 North America Diffraction Gratings Price by Application (2019-2030)
- 9.3 North America Diffraction Gratings Market Size by Country
  - 9.3.1 North America Diffraction Gratings Revenue Grow Rate by Country (2019 VS 2023 VS 2030)
  - 9.3.2 North America Diffraction Gratings Sales by Country (2019 VS 2023 VS 2030)
  - 9.3.3 North America Diffraction Gratings Price by Country (2019-2030)
  - 9.3.4 U.S.
  - 9.3.5 Canada

## **10 EUROPE**

- 10.1 Europe Diffraction Gratings Market Size by Type
  - 10.1.1 Europe Diffraction Gratings Revenue by Type (2019-2030)
  - 10.1.2 Europe Diffraction Gratings Sales by Type (2019-2030)
  - 10.1.3 Europe Diffraction Gratings Price by Type (2019-2030)
- 10.2 Europe Diffraction Gratings Market Size by Application
  - 10.2.1 Europe Diffraction Gratings Revenue by Application (2019-2030)
  - 10.2.2 Europe Diffraction Gratings Sales by Application (2019-2030)
  - 10.2.3 Europe Diffraction Gratings Price by Application (2019-2030)
- 10.3 Europe Diffraction Gratings Market Size by Country
  - 10.3.1 Europe Diffraction Gratings Revenue Grow Rate by Country (2019 VS 2023 VS 2030)
  - 10.3.2 Europe Diffraction Gratings Sales by Country (2019 VS 2023 VS 2030)
  - 10.3.3 Europe Diffraction Gratings Price by Country (2019-2030)
  - 10.3.4 Germany
  - 10.3.5 France
  - 10.3.6 U.K.
  - 10.3.7 Italy
  - 10.3.8 Russia

## **11 CHINA**

- 11.1 China Diffraction Gratings Market Size by Type
  - 11.1.1 China Diffraction Gratings Revenue by Type (2019-2030)
  - 11.1.2 China Diffraction Gratings Sales by Type (2019-2030)
  - 11.1.3 China Diffraction Gratings Price by Type (2019-2030)
- 11.2 China Diffraction Gratings Market Size by Application

- 11.2.1 China Diffraction Gratings Revenue by Application (2019-2030)
- 11.2.2 China Diffraction Gratings Sales by Application (2019-2030)
- 11.2.3 China Diffraction Gratings Price by Application (2019-2030)

## **12 ASIA (EXCLUDING CHINA)**

- 12.1 Asia Diffraction Gratings Market Size by Type
  - 12.1.1 Asia Diffraction Gratings Revenue by Type (2019-2030)
  - 12.1.2 Asia Diffraction Gratings Sales by Type (2019-2030)
  - 12.1.3 Asia Diffraction Gratings Price by Type (2019-2030)
- 12.2 Asia Diffraction Gratings Market Size by Application
  - 12.2.1 Asia Diffraction Gratings Revenue by Application (2019-2030)
  - 12.2.2 Asia Diffraction Gratings Sales by Application (2019-2030)
  - 12.2.3 Asia Diffraction Gratings Price by Application (2019-2030)
- 12.3 Asia Diffraction Gratings Market Size by Country
  - 12.3.1 Asia Diffraction Gratings Revenue Growth Rate by Country (2019 VS 2023 VS 2030)
  - 12.3.2 Asia Diffraction Gratings Sales by Country (2019 VS 2023 VS 2030)
  - 12.3.3 Asia Diffraction Gratings Price by Country (2019-2030)
  - 12.3.4 Japan
  - 12.3.5 South Korea
  - 12.3.6 India
  - 12.3.7 Australia
  - 12.3.8 China Taiwan
  - 12.3.9 Southeast Asia

## **13 MIDDLE EAST, AFRICA AND LATIN AMERICA**

- 13.1 Middle East, Africa and Latin America Diffraction Gratings Market Size by Type
  - 13.1.1 Middle East, Africa and Latin America Diffraction Gratings Revenue by Type (2019-2030)
  - 13.1.2 Middle East, Africa and Latin America Diffraction Gratings Sales by Type (2019-2030)
  - 13.1.3 Middle East, Africa and Latin America Diffraction Gratings Price by Type (2019-2030)
- 13.2 Middle East, Africa and Latin America Diffraction Gratings Market Size by Application
  - 13.2.1 Middle East, Africa and Latin America Diffraction Gratings Revenue by Application (2019-2030)



13.2.2 Middle East, Africa and Latin America Diffraction Gratings Sales by Application (2019-2030)

13.2.3 Middle East, Africa and Latin America Diffraction Gratings Price by Application (2019-2030)

13.3 Middle East, Africa and Latin America Diffraction Gratings Market Size by Country

13.3.1 Middle East, Africa and Latin America Diffraction Gratings Revenue Growth Rate by Country (2019 VS 2023 VS 2030)

13.3.2 Middle East, Africa and Latin America Diffraction Gratings Sales by Country (2019 VS 2023 VS 2030)

13.3.3 Middle East, Africa and Latin America Diffraction Gratings Price by Country (2019-2030)

13.3.4 Mexico

13.3.5 Brazil

13.3.6 Israel

13.3.7 Argentina

13.3.8 Colombia

13.3.9 Turkey

13.3.10 Saudi Arabia

13.3.11 UAE

## **14 VALUE CHAIN AND SALES CHANNELS ANALYSIS**

14.1 Diffraction Gratings Value Chain Analysis

14.1.1 Diffraction Gratings Key Raw Materials

14.1.2 Raw Materials Key Suppliers

14.1.3 Manufacturing Cost Structure

14.1.4 Diffraction Gratings Production Mode & Process

14.2 Diffraction Gratings Sales Channels Analysis

14.2.1 Direct Comparison with Distribution Share

14.2.2 Diffraction Gratings Distributors

14.2.3 Diffraction Gratings Customers

## **15 CONCLUDING INSIGHTS**

## **16 APPENDIX**

16.1 Reasons for Doing This Study

16.2 Research Methodology

16.3 Research Process

16.4 Authors List of This Report

16.5 Data Source

16.5.1 Secondary Sources

16.5.2 Primary Sources

16.6 Disclaimer

## List Of Tables

### LIST OF TABLES

- Table 1. Global Diffraction Gratings Market Size Growth Rate by Type (US\$ Million), 2019 VS 2023 VS 2030
- Table 2. Global Diffraction Gratings Market Size Growth Rate by Type (US\$ Million), 2019 VS 2023 VS 2030
- Table 3. Ruled Gratings Major Manufacturers
- Table 4. Holographic Gratings Major Manufacturers
- Table 5. Global Diffraction Gratings Market Size Growth Rate by Application (US\$ Million), 2019 VS 2023 VS 2030
- Table 6. Monochromator and Spectrometer Major Manufacturers
- Table 7. Laser Major Manufacturers
- Table 8. Optical Telecom Major Manufacturers
- Table 9. Astronomy Major Manufacturers
- Table 10. Others Major Manufacturers
- Table 11. Diffraction Gratings Industry Trends
- Table 12. Diffraction Gratings Industry Drivers
- Table 13. Diffraction Gratings Industry Opportunities and Challenges
- Table 14. Diffraction Gratings Industry Restraints
- Table 15. Global Diffraction Gratings Production Growth Rate (CAGR) by Region: 2019 VS 2023 VS 2030 (K Units)
- Table 16. Global Diffraction Gratings Production by Region (2019-2024) & (K Units)
- Table 17. Global Diffraction Gratings Production by Region (2025-2030) & (K Units)
- Table 18. Global Diffraction Gratings Production Market Share by Region (2019-2024)
- Table 19. Global Diffraction Gratings Production Market Share by Region (2025-2030)
- Table 20. Global Diffraction Gratings Revenue Grow Rate (CAGR) by Region: 2019 VS 2023 VS 2030 (US\$ Million)
- Table 21. Global Diffraction Gratings Revenue by Region (2019-2024) & (US\$ Million)
- Table 22. Global Diffraction Gratings Revenue by Region (2025-2030) & (US\$ Million)
- Table 23. Global Diffraction Gratings Revenue Market Share by Region (2019-2024)
- Table 24. Global Diffraction Gratings Revenue Market Share by Region (2025-2030)
- Table 25. Global Diffraction Gratings Sales Grow Rate (CAGR) by Region: 2019 VS 2023 VS 2030 (K Units)
- Table 26. Global Diffraction Gratings Sales by Region (2019-2024) & (K Units)
- Table 27. Global Diffraction Gratings Sales by Region (2025-2030) & (K Units)
- Table 28. Global Diffraction Gratings Sales Market Share by Region (2019-2024)
- Table 29. Global Diffraction Gratings Sales Market Share by Region (2025-2030)

Table 30. Global Diffraction Gratings Revenue by Manufacturers (US\$ Million) & (2019-2024)

Table 31. Global Diffraction Gratings Revenue Market Share by Manufacturers (2019-2024)

Table 32. Global Diffraction Gratings Sales by Manufacturers (US\$ Million) & (2019-2024)

Table 33. Global Diffraction Gratings Sales Market Share by Manufacturers (2019-2024)

Table 34. Global Diffraction Gratings Sales Price (USD/Unit) of Manufacturers (2019-2024)

Table 35. Global Diffraction Gratings Key Manufacturers Ranking, 2022 VS 2023 VS 2024

Table 36. Global Diffraction Gratings Key Manufacturers Manufacturing Sites & Headquarters

Table 37. Global Diffraction Gratings Manufacturers, Product Type & Application

Table 38. Global Diffraction Gratings Manufacturers Commercialization Time

Table 39. Global Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 40. Global Diffraction Gratings by Manufacturers Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue of 2023)

Table 41. Global Diffraction Gratings Revenue by Type 2019 VS 2023 VS 2030 (US\$ Million)

Table 42. Global Diffraction Gratings Revenue by Type (2019-2024) & (US\$ Million)

Table 43. Global Diffraction Gratings Revenue by Type (2025-2030) & (US\$ Million)

Table 44. Global Diffraction Gratings Revenue Market Share by Type (2019-2024)

Table 45. Global Diffraction Gratings Revenue Market Share by Type (2025-2030)

Table 46. Global Diffraction Gratings Sales by Type 2019 VS 2023 VS 2030 (K Units)

Table 47. Global Diffraction Gratings Sales by Type (2019-2024) & (K Units)

Table 48. Global Diffraction Gratings Sales by Type (2025-2030) & (K Units)

Table 49. Global Diffraction Gratings Sales Market Share by Type (2019-2024)

Table 50. Global Diffraction Gratings Sales Market Share by Type (2025-2030)

Table 51. Global Diffraction Gratings Price by Type (2019-2024) & (USD/Unit)

Table 52. Global Diffraction Gratings Price by Type (2025-2030) & (USD/Unit)

Table 53. Global Diffraction Gratings Revenue by Application 2019 VS 2023 VS 2030 (US\$ Million)

Table 54. Global Diffraction Gratings Revenue by Application (2019-2024) & (US\$ Million)

Table 55. Global Diffraction Gratings Revenue by Application (2025-2030) & (US\$ Million)

Table 56. Global Diffraction Gratings Revenue Market Share by Application (2019-2024)

Table 57. Global Diffraction Gratings Revenue Market Share by Application (2025-2030)

Table 58. Global Diffraction Gratings Sales by Application 2019 VS 2023 VS 2030 (K Units)

Table 59. Global Diffraction Gratings Sales by Application (2019-2024) & (K Units)

Table 60. Global Diffraction Gratings Sales by Application (2025-2030) & (K Units)

Table 61. Global Diffraction Gratings Sales Market Share by Application (2019-2024)

Table 62. Global Diffraction Gratings Sales Market Share by Application (2025-2030)

Table 63. Global Diffraction Gratings Price by Application (2019-2024) & (USD/Unit)

Table 64. Global Diffraction Gratings Price by Application (2025-2030) & (USD/Unit)

Table 65. HORIBA Company Information

Table 66. HORIBA Business Overview

Table 67. HORIBA Diffraction Gratings Sales (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 68. HORIBA Diffraction Gratings Product Portfolio

Table 69. HORIBA Recent Development

Table 70. MKS Instruments(Newport Corporation) Company Information

Table 71. MKS Instruments(Newport Corporation) Business Overview

Table 72. MKS Instruments(Newport Corporation) Diffraction Gratings Sales (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 73. MKS Instruments(Newport Corporation) Diffraction Gratings Product Portfolio

Table 74. MKS Instruments(Newport Corporation) Recent Development

Table 75. Edmund Optics Company Information

Table 76. Edmund Optics Business Overview

Table 77. Edmund Optics Diffraction Gratings Sales (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 78. Edmund Optics Diffraction Gratings Product Portfolio

Table 79. Edmund Optics Recent Development

Table 80. Shimadzu Corporation Company Information

Table 81. Shimadzu Corporation Business Overview

Table 82. Shimadzu Corporation Diffraction Gratings Sales (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 83. Shimadzu Corporation Diffraction Gratings Product Portfolio

Table 84. Shimadzu Corporation Recent Development

Table 85. Kaiser Optical Systems Company Information

Table 86. Kaiser Optical Systems Business Overview

Table 87. Kaiser Optical Systems Diffraction Gratings Sales (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 88. Kaiser Optical Systems Diffraction Gratings Product Portfolio

Table 89. Kaiser Optical Systems Recent Development

Table 90. Lightsmyth (Finisar) Company Information

- Table 91. Lightsmyth (Finisar) Business Overview
- Table 92. Lightsmyth (Finisar) Diffraction Gratings Sales (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 93. Lightsmyth (Finisar) Diffraction Gratings Product Portfolio
- Table 94. Lightsmyth (Finisar) Recent Development
- Table 95. Plymouth Grating Lab Company Information
- Table 96. Plymouth Grating Lab Business Overview
- Table 97. Plymouth Grating Lab Diffraction Gratings Sales (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 98. Plymouth Grating Lab Diffraction Gratings Product Portfolio
- Table 99. Plymouth Grating Lab Recent Development
- Table 100. Zeiss Company Information
- Table 101. Zeiss Business Overview
- Table 102. Zeiss Diffraction Gratings Sales (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 103. Zeiss Diffraction Gratings Product Portfolio
- Table 104. Zeiss Recent Development
- Table 105. Optometrics (Dynasil) Company Information
- Table 106. Optometrics (Dynasil) Business Overview
- Table 107. Optometrics (Dynasil) Diffraction Gratings Sales (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 108. Optometrics (Dynasil) Diffraction Gratings Product Portfolio
- Table 109. Optometrics (Dynasil) Recent Development
- Table 110. Headwall Photonics Company Information
- Table 111. Headwall Photonics Business Overview
- Table 112. Headwall Photonics Diffraction Gratings Sales (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 113. Headwall Photonics Diffraction Gratings Product Portfolio
- Table 114. Headwall Photonics Recent Development
- Table 115. Spectrogon AB Company Information
- Table 116. Spectrogon AB Business Overview
- Table 117. Spectrogon AB Diffraction Gratings Sales (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 118. Spectrogon AB Diffraction Gratings Product Portfolio
- Table 119. Spectrogon AB Recent Development
- Table 120. Jenoptik Company Information
- Table 121. Jenoptik Business Overview
- Table 122. Jenoptik Diffraction Gratings Sales (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

- Table 123. Jenoptik Diffraction Gratings Product Portfolio
- Table 124. Jenoptik Recent Development
- Table 125. Spectrum Scientific Company Information
- Table 126. Spectrum Scientific Business Overview
- Table 127. Spectrum Scientific Diffraction Gratings Sales (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 128. Spectrum Scientific Diffraction Gratings Product Portfolio
- Table 129. Spectrum Scientific Recent Development
- Table 130. Photop Technologies Company Information
- Table 131. Photop Technologies Business Overview
- Table 132. Photop Technologies Diffraction Gratings Sales (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 133. Photop Technologies Diffraction Gratings Product Portfolio
- Table 134. Photop Technologies Recent Development
- Table 135. Wasatch Photonics Company Information
- Table 136. Wasatch Photonics Business Overview
- Table 137. Wasatch Photonics Diffraction Gratings Sales (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 138. Wasatch Photonics Diffraction Gratings Product Portfolio
- Table 139. Wasatch Photonics Recent Development
- Table 140. GratingWorks Company Information
- Table 141. GratingWorks Business Overview
- Table 142. GratingWorks Diffraction Gratings Sales (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 143. GratingWorks Diffraction Gratings Product Portfolio
- Table 144. GratingWorks Recent Development
- Table 145. Shenyang Yibeite Optics Company Information
- Table 146. Shenyang Yibeite Optics Business Overview
- Table 147. Shenyang Yibeite Optics Diffraction Gratings Sales (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 148. Shenyang Yibeite Optics Diffraction Gratings Product Portfolio
- Table 149. Shenyang Yibeite Optics Recent Development
- Table 150. North America Diffraction Gratings Revenue by Type (2019-2024) & (US\$ Million)
- Table 151. North America Diffraction Gratings Revenue by Type (2025-2030) & (US\$ Million)
- Table 152. North America Diffraction Gratings Sales by Type (2019-2024) & (K Units)
- Table 153. North America Diffraction Gratings Sales by Type (2025-2030) & (K Units)
- Table 154. North America Diffraction Gratings Sales Price by Type (2019-2024) &

(USD/Unit)

Table 155. North America Diffraction Gratings Sales Price by Type (2025-2030) & (USD/Unit)

Table 156. North America Diffraction Gratings Revenue by Application (2019-2024) & (US\$ Million)

Table 157. North America Diffraction Gratings Revenue by Application (2025-2030) & (US\$ Million)

Table 158. North America Diffraction Gratings Sales by Application (2019-2024) & (K Units)

Table 159. North America Diffraction Gratings Sales by Application (2025-2030) & (K Units)

Table 160. North America Diffraction Gratings Sales Price by Application (2019-2024) & (USD/Unit)

Table 161. North America Diffraction Gratings Sales Price by Application (2025-2030) & (USD/Unit)

Table 162. North America Diffraction Gratings Revenue Grow Rate by Country (2019 VS 2023 VS 2030) & (US\$ Million)

Table 163. North America Diffraction Gratings Revenue Grow Rate by Country (2019-2024) & (US\$ Million)

Table 164. North America Diffraction Gratings Revenue Grow Rate by Country (2025-2030) & (US\$ Million)

Table 165. North America Diffraction Gratings Sales by Country (2019 VS 2023 VS 2030) & (K Units)

Table 166. North America Diffraction Gratings Sales by Country (2019-2024) & (K Units)

Table 167. North America Diffraction Gratings Sales by Country (2025-2030) & (K Units)

Table 168. North America Diffraction Gratings Sales Price by Country (2019-2024) & (USD/Unit)

Table 169. North America Diffraction Gratings Sales Price by Country (2025-2030) & (USD/Unit)

Table 170. U.S. Diffraction Gratings Revenue (2019-2030) & (US\$ Million)

Table 171. Canada Diffraction Gratings Revenue (2019-2030) & (US\$ Million)

Table 172. Europe Diffraction Gratings Revenue by Type (2019-2024) & (US\$ Million)

Table 173. Europe Diffraction Gratings Revenue by Type (2025-2030) & (US\$ Million)

Table 174. Europe Diffraction Gratings Sales by Type (2019-2024) & (K Units)

Table 175. Europe Diffraction Gratings Sales by Type (2025-2030) & (K Units)

Table 176. Europe Diffraction Gratings Sales Price by Type (2019-2024) & (USD/Unit)

Table 177. Europe Diffraction Gratings Sales Price by Type (2025-2030) & (USD/Unit)

Table 178. Europe Diffraction Gratings Revenue by Application (2019-2024) & (US\$ Million)



Table 179. Europe Diffraction Gratings Revenue by Application (2025-2030) & (US\$ Million)

Table 180. Europe Diffraction Gratings Sales by Application (2019-2024) & (K Units)

Table 181. Europe Diffraction Gratings Sales by Application (2025-2030) & (K Units)

Table 182. Europe Diffraction Gratings Sales Price by Application (2019-2024) & (USD/Unit)

Table 183. Europe Diffraction Gratings Sales Price by Application (2025-2030) & (USD/Unit)

Table 184. Europe Diffraction Gratings Revenue Grow Rate by Country (2019 VS 2023 VS 2030) & (US\$ Million)

Table 185. Europe Diffraction Gratings Revenue Grow Rate by Country (2019-2024) & (US\$ Million)

Table 186. Europe Diffraction Gratings

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