

Global Diffraction Gratings Market by Size, by Type, by Application, by Region, History and Forecast 2019-2030

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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: Provides an overview of the Diffraction Gratings market, including product definition, global market growth prospects, production value, capacity, and average price forecasts (2019-2030).

Chapter 2: Analysis key trends, drivers, challenges, and opportunities within the global Diffraction Gratings industry.

Chapter 3: Detailed analysis of Diffraction Gratings market competition landscape. Including Diffraction Gratings manufacturers' output value, output and average price from 2019 to 2024, as well as competition analysis indicators such as origin, product type, application, 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: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product production/output, value, price, gross margin, product introduction, recent development, etc.

Chapter 7: Production/Production Value of Diffraction Gratings by region. It provides a quantitative analysis of the market size and development potential of each region in the next six years.

Chapter 8: Consumption of Diffraction Gratings in 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, and production of each country in the world.

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

Chapter 10: Concluding Insights of the report.

Contents

1 MARKET OVERVIEW

- 1.1 Product Definition
- 1.2 Global Market Growth Prospects
 - 1.2.1 Global Diffraction Gratings Production Value Estimates and Forecasts (2019-2030)
 - 1.2.2 Global Diffraction Gratings Production Capacity Estimates and Forecasts (2019-2030)
 - 1.2.3 Global Diffraction Gratings Production Estimates and Forecasts (2019-2030)
 - 1.2.4 Global Diffraction Gratings Market Average Price (2019-2030)
- 1.3 Assumptions and Limitations
- 1.4 Study Goals and Objectives

2 GLOBAL 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 DIFFRACTION GRATINGS MARKET BY MANUFACTURERS

- 3.1 Global Diffraction Gratings Production Value by Manufacturers (2019-2024)
- 3.2 Global Diffraction Gratings Production by Manufacturers (2019-2024)
- 3.3 Global Diffraction Gratings Average Price by Manufacturers (2019-2024)
- 3.4 Global Diffraction Gratings Industry Manufacturers Ranking, 2022 VS 2023 VS 2024
- 3.5 Global Diffraction Gratings Key Manufacturers Manufacturing Sites & Headquarters
- 3.6 Global Diffraction Gratings Manufacturers, Product Type & Application
- 3.7 Global Diffraction Gratings Manufacturers Commercialization Time
- 3.8 Market Competitive Analysis
 - 3.8.1 Global Diffraction Gratings Market CR5 and HHI
 - 3.8.2 Global Top 5 and 10 Diffraction Gratings Players Market Share by Production Value in 2023
 - 3.8.3 2023 Diffraction Gratings Tier 1, Tier 2, and Tier

4 DIFFRACTION GRATINGS MARKET BY TYPE

4.1 Diffraction Gratings Type Introduction

4.1.1 Ruled Gratings

4.1.2 Holographic Gratings

4.2 Global Diffraction Gratings Production by Type

4.2.1 Global Diffraction Gratings Production by Type (2019 VS 2023 VS 2030)

4.2.2 Global Diffraction Gratings Production by Type (2019-2030)

4.2.3 Global Diffraction Gratings Production Market Share by Type (2019-2030)

4.3 Global Diffraction Gratings Production Value by Type

4.3.1 Global Diffraction Gratings Production Value by Type (2019 VS 2023 VS 2030)

4.3.2 Global Diffraction Gratings Production Value by Type (2019-2030)

4.3.3 Global Diffraction Gratings Production Value Market Share by Type (2019-2030)

5 DIFFRACTION GRATINGS MARKET BY APPLICATION

5.1 Diffraction Gratings Application Introduction

5.1.1 Monochromator and Spectrometer

5.1.2 Laser

5.1.3 Optical Telecom

5.1.4 Astronomy

5.1.5 Others

5.2 Global Diffraction Gratings Production by Application

5.2.1 Global Diffraction Gratings Production by Application (2019 VS 2023 VS 2030)

5.2.2 Global Diffraction Gratings Production by Application (2019-2030)

5.2.3 Global Diffraction Gratings Production Market Share by Application (2019-2030)

5.3 Global Diffraction Gratings Production Value by Application

5.3.1 Global Diffraction Gratings Production Value by Application (2019 VS 2023 VS 2030)

5.3.2 Global Diffraction Gratings Production Value by Application (2019-2030)

5.3.3 Global Diffraction Gratings Production Value Market Share by Application (2019-2030)

6 COMPANY PROFILES

6.1 HORIBA

6.1.1 HORIBA Company Information

6.1.2 HORIBA Business Overview

6.1.3 HORIBA Diffraction Gratings Production, Value and Gross Margin (2019-2024)

6.1.4 HORIBA Diffraction Gratings Product Portfolio

6.1.5 HORIBA Recent Developments

6.2 MKS Instruments(Newport Corporation)

6.2.1 MKS Instruments(Newport Corporation) Company Information

6.2.2 MKS Instruments(Newport Corporation) Business Overview

6.2.3 MKS Instruments(Newport Corporation) Diffraction Gratings Production, Value and Gross Margin (2019-2024)

6.2.4 MKS Instruments(Newport Corporation) Diffraction Gratings Product Portfolio

6.2.5 MKS Instruments(Newport Corporation) Recent Developments

6.3 Edmund Optics

6.3.1 Edmund Optics Company Information

6.3.2 Edmund Optics Business Overview

6.3.3 Edmund Optics Diffraction Gratings Production, Value and Gross Margin (2019-2024)

6.3.4 Edmund Optics Diffraction Gratings Product Portfolio

6.3.5 Edmund Optics Recent Developments

6.4 Shimadzu Corporation

6.4.1 Shimadzu Corporation Company Information

6.4.2 Shimadzu Corporation Business Overview

6.4.3 Shimadzu Corporation Diffraction Gratings Production, Value and Gross Margin (2019-2024)

6.4.4 Shimadzu Corporation Diffraction Gratings Product Portfolio

6.4.5 Shimadzu Corporation Recent Developments

6.5 Kaiser Optical Systems

6.5.1 Kaiser Optical Systems Company Information

6.5.2 Kaiser Optical Systems Business Overview

6.5.3 Kaiser Optical Systems Diffraction Gratings Production, Value and Gross Margin (2019-2024)

6.5.4 Kaiser Optical Systems Diffraction Gratings Product Portfolio

6.5.5 Kaiser Optical Systems Recent Developments

6.6 Lightsmyth (Finisar)

6.6.1 Lightsmyth (Finisar) Company Information

6.6.2 Lightsmyth (Finisar) Business Overview

6.6.3 Lightsmyth (Finisar) Diffraction Gratings Production, Value and Gross Margin (2019-2024)

6.6.4 Lightsmyth (Finisar) Diffraction Gratings Product Portfolio

6.6.5 Lightsmyth (Finisar) Recent Developments

6.7 Plymouth Grating Lab

6.7.1 Plymouth Grating Lab Company Information

6.7.2 Plymouth Grating Lab Business Overview

6.7.3 Plymouth Grating Lab Diffraction Gratings Production, Value and Gross Margin

(2019-2024)

6.7.4 Plymouth Grating Lab Diffraction Gratings Product Portfolio

6.7.5 Plymouth Grating Lab Recent Developments

6.8 Zeiss

6.8.1 Zeiss Company Information

6.8.2 Zeiss Business Overview

6.8.3 Zeiss Diffraction Gratings Production, Value and Gross Margin (2019-2024)

6.8.4 Zeiss Diffraction Gratings Product Portfolio

6.8.5 Zeiss Recent Developments

6.9 Optometrics (Dynasil)

6.9.1 Optometrics (Dynasil) Company Information

6.9.2 Optometrics (Dynasil) Business Overview

6.9.3 Optometrics (Dynasil) Diffraction Gratings Production, Value and Gross Margin

(2019-2024)

6.9.4 Optometrics (Dynasil) Diffraction Gratings Product Portfolio

6.9.5 Optometrics (Dynasil) Recent Developments

6.10 Headwall Photonics

6.10.1 Headwall Photonics Company Information

6.10.2 Headwall Photonics Business Overview

6.10.3 Headwall Photonics Diffraction Gratings Production, Value and Gross Margin

(2019-2024)

6.10.4 Headwall Photonics Diffraction Gratings Product Portfolio

6.10.5 Headwall Photonics Recent Developments

6.11 Spectrogon AB

6.11.1 Spectrogon AB Company Information

6.11.2 Spectrogon AB Business Overview

6.11.3 Spectrogon AB Diffraction Gratings Production, Value and Gross Margin

(2019-2024)

6.11.4 Spectrogon AB Diffraction Gratings Product Portfolio

6.11.5 Spectrogon AB Recent Developments

6.12 Jenoptik

6.12.1 Jenoptik Company Information

6.12.2 Jenoptik Business Overview

6.12.3 Jenoptik Diffraction Gratings Production, Value and Gross Margin (2019-2024)

6.12.4 Jenoptik Diffraction Gratings Product Portfolio

6.12.5 Jenoptik Recent Developments

6.13 Spectrum Scientific

6.13.1 Spectrum Scientific Company Information

6.13.2 Spectrum Scientific Business Overview

- 6.13.3 Spectrum Scientific Diffraction Gratings Production, Value and Gross Margin (2019-2024)
- 6.13.4 Spectrum Scientific Diffraction Gratings Product Portfolio
- 6.13.5 Spectrum Scientific Recent Developments
- 6.14 Photop Technologies
 - 6.14.1 Photop Technologies Company Information
 - 6.14.2 Photop Technologies Business Overview
 - 6.14.3 Photop Technologies Diffraction Gratings Production, Value and Gross Margin (2019-2024)
 - 6.14.4 Photop Technologies Diffraction Gratings Product Portfolio
 - 6.14.5 Photop Technologies Recent Developments
- 6.15 Wasatch Photonics
 - 6.15.1 Wasatch Photonics Company Information
 - 6.15.2 Wasatch Photonics Business Overview
 - 6.15.3 Wasatch Photonics Diffraction Gratings Production, Value and Gross Margin (2019-2024)
 - 6.15.4 Wasatch Photonics Diffraction Gratings Product Portfolio
 - 6.15.5 Wasatch Photonics Recent Developments
- 6.16 GratingWorks
 - 6.16.1 GratingWorks Company Information
 - 6.16.2 GratingWorks Business Overview
 - 6.16.3 GratingWorks Diffraction Gratings Production, Value and Gross Margin (2019-2024)
 - 6.16.4 GratingWorks Diffraction Gratings Product Portfolio
 - 6.16.5 GratingWorks Recent Developments
- 6.17 Shenyang Yibeite Optics
 - 6.17.1 Shenyang Yibeite Optics Company Information
 - 6.17.2 Shenyang Yibeite Optics Business Overview
 - 6.17.3 Shenyang Yibeite Optics Diffraction Gratings Production, Value and Gross Margin (2019-2024)
 - 6.17.4 Shenyang Yibeite Optics Diffraction Gratings Product Portfolio
 - 6.17.5 Shenyang Yibeite Optics Recent Developments

7 GLOBAL DIFFRACTION GRATINGS PRODUCTION BY REGION

- 7.1 Global Diffraction Gratings Production by Region: 2019 VS 2023 VS 2030
- 7.2 Global Diffraction Gratings Production by Region (2019-2030)
 - 7.2.1 Global Diffraction Gratings Production by Region: 2019-2024
 - 7.2.2 Global Diffraction Gratings Production by Region (2025-2030)

7.3 Global Diffraction Gratings Production by Region: 2019 VS 2023 VS 2030

7.4 Global Diffraction Gratings Production Value by Region (2019-2030)

7.4.1 Global Diffraction Gratings Production Value by Region: 2019-2024

7.4.2 Global Diffraction Gratings Production Value by Region (2025-2030)

7.5 Global Diffraction Gratings Market Price Analysis by Region (2019-2024)

7.6 Regional Production Value Trends (2019-2030)

7.6.1 North America Diffraction Gratings Production Value (2019-2030)

7.6.2 Europe Diffraction Gratings Production Value (2019-2030)

7.6.3 Asia-Pacific Diffraction Gratings Production Value (2019-2030)

7.6.4 Latin America Diffraction Gratings Production Value (2019-2030)

7.6.5 Middle East & Africa Diffraction Gratings Production Value (2019-2030)

8 GLOBAL DIFFRACTION GRATINGS CONSUMPTION BY REGION

8.1 Global Diffraction Gratings Consumption by Region: 2019 VS 2023 VS 2030

8.2 Global Diffraction Gratings Consumption by Region (2019-2030)

8.2.1 Global Diffraction Gratings Consumption by Region (2019-2024)

8.2.2 Global Diffraction Gratings Consumption by Region (2025-2030)

8.3 North America

8.3.1 North America Diffraction Gratings Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

8.3.2 North America Diffraction Gratings Consumption by Country (2019-2030)

8.3.3 U.S.

8.3.4 Canada

8.4 Europe

8.4.1 Europe Diffraction Gratings Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

8.4.2 Europe Diffraction Gratings Consumption by Country (2019-2030)

8.4.3 Germany

8.4.4 France

8.4.5 U.K.

8.4.6 Italy

8.4.7 Netherlands

8.5 Asia Pacific

8.5.1 Asia Pacific Diffraction Gratings Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

8.5.2 Asia Pacific Diffraction Gratings Consumption by Country (2019-2030)

8.5.3 China

8.5.4 Japan

8.5.5 South Korea

8.5.6 Southeast Asia

8.5.7 India

8.5.8 Australia

8.6 LAMEA

8.6.1 LAMEA Diffraction Gratings Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

8.6.2 LAMEA Diffraction Gratings Consumption by Country (2019-2030)

8.6.3 Mexico

8.6.4 Brazil

8.6.5 Turkey

8.6.6 GCC Countries

9 VALUE CHAIN AND SALES CHANNELS ANALYSIS

9.1 Diffraction Gratings Value Chain Analysis

9.1.1 Diffraction Gratings Key Raw Materials

9.1.2 Raw Materials Key Suppliers

9.1.3 Manufacturing Cost Structure

9.1.4 Diffraction Gratings Production Mode & Process

9.2 Diffraction Gratings Sales Channels Analysis

9.2.1 Direct Comparison with Distribution Share

9.2.2 Diffraction Gratings Distributors

9.2.3 Diffraction Gratings 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

11.6 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Diffraction Gratings Industry Trends

Table 2. Diffraction Gratings Industry Drivers

Table 3. Diffraction Gratings Industry Opportunities and Challenges

Table 4. Diffraction Gratings Industry Restraints

Table 5. Global Diffraction Gratings Production Value by Manufacturers (US\$ Million) & (2019-2024)

Table 6. Global Diffraction Gratings Production Value Market Share by Manufacturers (2019-2024)

Table 7. Global Diffraction Gratings Production by Manufacturers (K Units) & (2019-2024)

Table 8. Global Diffraction Gratings Production Market Share by Manufacturers

Table 9. Global Diffraction Gratings Average Price (USD/Unit) of Manufacturers (2019-2024)

Table 10. Global Diffraction Gratings Industry Manufacturers Ranking, 2022 VS 2023 VS 2024

Table 11. Global Diffraction Gratings Industry Manufacturers Ranking, 2022 VS 2023 VS 2024

Table 12. Global Diffraction Gratings Key Manufacturers Manufacturing Sites & Headquarters

Table 13. Global Diffraction Gratings Manufacturers, Product Type & Application

Table 14. Global Diffraction Gratings Manufacturers Commercialization Time

Table 15. Global Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 16. Global Diffraction Gratings by Manufacturers Type (Tier 1, Tier 2, and Tier 3) & (based on the Production Value of 2023)

Table 17. Major Manufacturers of Ruled Gratings

Table 18. Major Manufacturers of Holographic Gratings

Table 19. Global Diffraction Gratings Production by type 2019 VS 2023 VS 2030 (K Units)

Table 20. Global Diffraction Gratings Production by type (2019-2024) & (K Units)

Table 21. Global Diffraction Gratings Production by type (2025-2030) & (K Units)

Table 22. Global Diffraction Gratings Production Market Share by type (2019-2024)

Table 23. Global Diffraction Gratings Production Market Share by type (2025-2030)

Table 24. Global Diffraction Gratings Production Value by type 2019 VS 2023 VS 2030 (K Units)

Table 25. Global Diffraction Gratings Production Value by type (2019-2024) & (K Units)

- Table 26. Global Diffraction Gratings Production Value by type (2025-2030) & (K Units)
- Table 27. Global Diffraction Gratings Production Value Market Share by type (2019-2024)
- Table 28. Global Diffraction Gratings Production Value Market Share by type (2025-2030)
- Table 29. Major Manufacturers of Monochromator and Spectrometer
- Table 30. Major Manufacturers of Laser
- Table 31. Major Manufacturers of Optical Telecom
- Table 32. Major Manufacturers of Astronomy
- Table 33. Major Manufacturers of Others
- Table 34. Global Diffraction Gratings Production by application 2019 VS 2023 VS 2030 (K Units)
- Table 35. Global Diffraction Gratings Production by application (2019-2024) & (K Units)
- Table 36. Global Diffraction Gratings Production by application (2025-2030) & (K Units)
- Table 37. Global Diffraction Gratings Production Market Share by application (2019-2024)
- Table 38. Global Diffraction Gratings Production Market Share by application (2025-2030)
- Table 39. Global Diffraction Gratings Production Value by application 2019 VS 2023 VS 2030 (K Units)
- Table 40. Global Diffraction Gratings Production Value by application (2019-2024) & (K Units)
- Table 41. Global Diffraction Gratings Production Value by application (2025-2030) & (K Units)
- Table 42. Global Diffraction Gratings Production Value Market Share by application (2019-2024)
- Table 43. Global Diffraction Gratings Production Value Market Share by application (2025-2030)
- Table 44. HORIBA Company Information
- Table 45. HORIBA Business Overview
- Table 46. HORIBA Diffraction Gratings Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 47. HORIBA Diffraction Gratings Product Portfolio
- Table 48. HORIBA Recent Development
- Table 49. MKS Instruments(Newport Corporation) Company Information
- Table 50. MKS Instruments(Newport Corporation) Business Overview
- Table 51. MKS Instruments(Newport Corporation) Diffraction Gratings Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 52. MKS Instruments(Newport Corporation) Diffraction Gratings Product Portfolio

- Table 53. MKS Instruments(Newport Corporation) Recent Development
- Table 54. Edmund Optics Company Information
- Table 55. Edmund Optics Business Overview
- Table 56. Edmund Optics Diffraction Gratings Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 57. Edmund Optics Diffraction Gratings Product Portfolio
- Table 58. Edmund Optics Recent Development
- Table 59. Shimadzu Corporation Company Information
- Table 60. Shimadzu Corporation Business Overview
- Table 61. Shimadzu Corporation Diffraction Gratings Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 62. Shimadzu Corporation Diffraction Gratings Product Portfolio
- Table 63. Shimadzu Corporation Recent Development
- Table 64. Kaiser Optical Systems Company Information
- Table 65. Kaiser Optical Systems Business Overview
- Table 66. Kaiser Optical Systems Diffraction Gratings Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 67. Kaiser Optical Systems Diffraction Gratings Product Portfolio
- Table 68. Kaiser Optical Systems Recent Development
- Table 69. Lightsmyth (Finisar) Company Information
- Table 70. Lightsmyth (Finisar) Business Overview
- Table 71. Lightsmyth (Finisar) Diffraction Gratings Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 72. Lightsmyth (Finisar) Diffraction Gratings Product Portfolio
- Table 73. Lightsmyth (Finisar) Recent Development
- Table 74. Plymouth Grating Lab Company Information
- Table 75. Plymouth Grating Lab Business Overview
- Table 76. Plymouth Grating Lab Diffraction Gratings Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 77. Plymouth Grating Lab Diffraction Gratings Product Portfolio
- Table 78. Plymouth Grating Lab Recent Development
- Table 79. Zeiss Company Information
- Table 80. Zeiss Business Overview
- Table 81. Zeiss Diffraction Gratings Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 82. Zeiss Diffraction Gratings Product Portfolio
- Table 83. Zeiss Recent Development
- Table 84. Optometrics (Dynasil) Company Information
- Table 85. Optometrics (Dynasil) Business Overview

Table 86. Optometrics (Dynasil) Diffraction Gratings Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 87. Optometrics (Dynasil) Diffraction Gratings Product Portfolio

Table 88. Optometrics (Dynasil) Recent Development

Table 89. Headwall Photonics Company Information

Table 90. Headwall Photonics Business Overview

Table 91. Headwall Photonics Diffraction Gratings Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 92. Headwall Photonics Diffraction Gratings Product Portfolio

Table 93. Headwall Photonics Recent Development

Table 94. Spectrogon AB Company Information

Table 95. Spectrogon AB Business Overview

Table 96. Spectrogon AB Diffraction Gratings Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 97. Spectrogon AB Diffraction Gratings Product Portfolio

Table 98. Spectrogon AB Recent Development

Table 99. Jenoptik Company Information

Table 100. Jenoptik Business Overview

Table 101. Jenoptik Diffraction Gratings Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 102. Jenoptik Diffraction Gratings Product Portfolio

Table 103. Jenoptik Recent Development

Table 104. Spectrum Scientific Company Information

Table 105. Spectrum Scientific Business Overview

Table 106. Spectrum Scientific Diffraction Gratings Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 107. Spectrum Scientific Diffraction Gratings Product Portfolio

Table 108. Spectrum Scientific Recent Development

Table 109. Photop Technologies Company Information

Table 110. Photop Technologies Business Overview

Table 111. Photop Technologies Diffraction Gratings Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 112. Photop Technologies Diffraction Gratings Product Portfolio

Table 113. Photop Technologies Recent Development

Table 114. Wasatch Photonics Company Information

Table 115. Wasatch Photonics Business Overview

Table 116. Wasatch Photonics Diffraction Gratings Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 117. Wasatch Photonics Diffraction Gratings Product Portfolio

- Table 118. Wasatch Photonics Recent Development
- Table 119. GratingWorks Company Information
- Table 120. GratingWorks Business Overview
- Table 121. GratingWorks Diffraction Gratings Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 122. GratingWorks Diffraction Gratings Product Portfolio
- Table 123. GratingWorks Recent Development
- Table 124. Shenyang Yibeite Optics Company Information
- Table 125. Shenyang Yibeite Optics Business Overview
- Table 126. Shenyang Yibeite Optics Diffraction Gratings Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 127. Shenyang Yibeite Optics Diffraction Gratings Product Portfolio
- Table 128. Shenyang Yibeite Optics Recent Development
- Table 129. Global Diffraction Gratings Production by Region: 2019 VS 2023 VS 2030 (K Units)
- Table 130. Global Diffraction Gratings Production by Region (2019-2024) & (K Units)
- Table 131. Global Diffraction Gratings Production Market Share by Region (2019-2024)
- Table 132. Global Diffraction Gratings Production Forecast by Region (2025-2030) & (K Units)
- Table 133. Global Diffraction Gratings Production Market Share Forecast by Region (2025-2030)
- Table 134. Global Diffraction Gratings Production Value Comparison by Region: 2019 VS 2023 VS 2030 (US\$ Million)
- Table 135. Global Diffraction Gratings Production Value by Region (2019-2024) & (US\$ Million)
- Table 136. Global Diffraction Gratings Production Value Forecast by Region (2025-2030) & (US\$ Million)
- Table 137. Global Diffraction Gratings Production Value Share Forecast by Region: (2025-2030) & (US\$ Million)
- Table 138. Global Diffraction Gratings Market Average Price (USD/Unit) by Region (2019-2024)
- Table 139. Global Diffraction Gratings Market Average Price (USD/Unit) by Region (2025-2030)
- Table 140. Global Diffraction Gratings Consumption by Region: 2019 VS 2023 VS 2030 (K Units)
- Table 141. Global Diffraction Gratings Consumption by Region (2019-2024) & (K Units)
- Table 142. Global Diffraction Gratings Consumption Market Share by Region (2019-2024)
- Table 143. Global Diffraction Gratings Consumption Forecasted by Region (2025-2030)

& (K Units)

Table 144. Global Diffraction Gratings Consumption Forecasted Market Share by Region (2025-2030)

Table 145. North America Diffraction Gratings Consumption Growth Rate by Country: 2019 VS 2023 VS 2030 (K Units)

Table 146. North America Diffraction Gratings Consumption by Country (2019-2024) & (K Units)

Table 147. North America Diffraction Gratings Consumption by Country (2025-2030) & (K Units)

Table 148. Europe Diffraction Gratings Consumption Growth Rate by Country: 2019 VS 2023 VS 2030 (K Units)

Table 149. Europe Diffraction Gratings Consumption by Country (2019-2024) & (K Units)

Table 150. Europe Diffraction Gratings Consumption by Country (2025-2030) & (K Units)

Table 151. Asia Pacific Diffraction Gratings Consumption Growth Rate by Country: 2019 VS 2023 VS 2030 (K Units)

Table 152. Asia Pacific Diffraction Gratings Consumption by Country (2019-2024) & (K Units)

Table 153. Asia Pacific Diffraction Gratings Consumption by Country (2025-2030) & (K Units)

Table 154. LAMEA Diffraction Gratings Consumption Growth Rate by Country: 2019 VS 2023 VS 2030 (K Units)

Table 155. LAMEA Diffraction Gratings Consumption by Country (2019-2024) & (K Units)

Table 156. LAMEA Diffraction Gratings Consumption by Country (2025-2030) & (K Units)

Table 157. Key Raw Materials

Table 158. Raw Materials Key Suppliers

Table 159. Diffraction Gratings Distributors List

Table 160. Diffraction Gratings Customers List

Table 161. Research Programs/Design for This Report

Table 162. Authors List of This Report

Table 163. Secondary Sources

Table 164. Primary Sources

List Of Figures

LIST OF FIGURES

- Figure 1. Diffraction Gratings Product Picture
- Figure 2. Global Diffraction Gratings Production Value (US\$ Million), 2019 VS 2023 VS 2030
- Figure 3. Global Diffraction Gratings Production Value (2019-2030) & (US\$ Million)
- Figure 4. Global Diffraction Gratings Production Capacity (2019-2030) & (K Units)
- Figure 5. Global Diffraction Gratings Production (2019-2030) & (K Units)
- Figure 6. Global Diffraction Gratings Average Price (USD/Unit) & (2019-2030)
- Figure 7. Global Top 5 and 10 Diffraction Gratings Players Market Share by Production Value in 2023
- Figure 8. Manufacturers Type (Tier 1, Tier 2, and Tier 3): 2019 VS 2023
- Figure 9. Ruled Gratings Picture
- Figure 10. Holographic Gratings Picture
- Figure 11. Global Diffraction Gratings Production by Type (2019 VS 2023 VS 2030) & (K Units)
- Figure 12. Global Diffraction Gratings Production Market Share 2019 VS 2023 VS 2030
- Figure 13. Global Diffraction Gratings Production Market Share by Type (2019-2030)
- Figure 14. Global Diffraction Gratings Production Value by Type (2019 VS 2023 VS 2030) & (K Units)
- Figure 15. Global Diffraction Gratings Production Value Share 2019 VS 2023 VS 2030
- Figure 16. Global Diffraction Gratings Production Value Share by Type (2019-2030)
- Figure 17. Monochromator and Spectrometer Picture
- Figure 18. Laser Picture
- Figure 19. Optical Telecom Picture
- Figure 20. Astronomy Picture
- Figure 21. Others Picture
- Figure 22. Global Diffraction Gratings Production by Application (2019 VS 2023 VS 2030) & (K Units)
- Figure 23. Global Diffraction Gratings Production Market Share 2019 VS 2023 VS 2030
- Figure 24. Global Diffraction Gratings Production Market Share by Application (2019-2030)
- Figure 25. Global Diffraction Gratings Production Value by Application (2019 VS 2023 VS 2030) & (K Units)
- Figure 26. Global Diffraction Gratings Production Value Share 2019 VS 2023 VS 2030
- Figure 27. Global Diffraction Gratings Production Value Share by Application (2019-2030)

Figure 28. Global Diffraction Gratings Production by Region: 2019 VS 2023 VS 2030 (K Units)

Figure 29. Global Diffraction Gratings Production Market Share by Region: 2019 VS 2023 VS 2030

Figure 30. Global Diffraction Gratings Production Value Comparison by Region: 2019 VS 2023 VS 2030 (US\$ Million)

Figure 31. Global Diffraction Gratings Production Value Share by Region: 2019 VS 2023 VS 2030

Figure 32. North America Diffraction Gratings Production Value (2019-2030) & (US\$ Million)

Figure 33. Europe Diffraction Gratings Production Value (2019-2030) & (US\$ Million)

Figure 34. Asia-Pacific Diffraction Gratings Production Value (2019-2030) & (US\$ Million)

Figure 35. Latin America Diffraction Gratings Production Value (2019-2030) & (US\$ Million)

Figure 36. Middle East & Africa Diffraction Gratings Production Value (2019-2030) & (US\$ Million)

Figure 37. North America Diffraction Gratings Consumption and Growth Rate (2019-2030) & (K Units)

Figure 38. North America Diffraction Gratings Consumption Market Share by Country (2019-2030)

Figure 39. U.S. Diffraction Gratings Consumption and Growth Rate (2019-2030) & (K Units)

Figure 40. Canada Diffraction Gratings Consumption and Growth Rate (2019-2030) & (K Units)

Figure 41. Europe Diffraction Gratings Consumption and Growth Rate (2019-2030) & (K Units)

Figure 42. Europe Diffraction Gratings Consumption Market Share by Country (2019-2030)

Figure 43. Germany Diffraction Gratings Consumption and Growth Rate (2019-2030) & (K Units)

Figure 44. France Diffraction Gratings Consumption and Growth Rate (2019-2030) & (K Units)

Figure 45. U.K. Diffraction Gratings Consumption and Growth Rate (2019-2030) & (K Units)

Figure 46. Italy Diffraction Gratings Consumption and Growth Rate (2019-2030) & (K Units)

Figure 47. Netherlands Diffraction Gratings Consumption and Growth Rate (2019-2030) & (K Units)

- Figure 48. Asia Pacific Diffraction Gratings Consumption and Growth Rate (2019-2030) & (K Units)
- Figure 49. Asia Pacific Diffraction Gratings Consumption Market Share by Country (2019-2030)
- Figure 50. China Diffraction Gratings Consumption and Growth Rate (2019-2030) & (K Units)
- Figure 51. Japan Diffraction Gratings Consumption and Growth Rate (2019-2030) & (K Units)
- Figure 52. South Korea Diffraction Gratings Consumption and Growth Rate (2019-2030) & (K Units)
- Figure 53. Southeast Asia Diffraction Gratings Consumption and Growth Rate (2019-2030) & (K Units)
- Figure 54. India Diffraction Gratings Consumption and Growth Rate (2019-2030) & (K Units)
- Figure 55. Australia Diffraction Gratings Consumption and Growth Rate (2019-2030) & (K Units)
- Figure 56. LAMEA Diffraction Gratings Consumption and Growth Rate (2019-2030) & (K Units)
- Figure 57. LAMEA Diffraction Gratings Consumption Market Share by Country (2019-2030)
- Figure 58. Mexico Diffraction Gratings Consumption and Growth Rate (2019-2030) & (K Units)
- Figure 59. Brazil Diffraction Gratings Consumption and Growth Rate (2019-2030) & (K Units)
- Figure 60. Turkey Diffraction Gratings Consumption and Growth Rate (2019-2030) & (K Units)
- Figure 61. GCC Countries Diffraction Gratings Consumption and Growth Rate (2019-2030) & (K Units)
- Figure 62. Diffraction Gratings Value Chain
- Figure 63. Manufacturing Cost Structure
- Figure 64. Diffraction Gratings Production Mode & Process
- Figure 65. Direct Comparison with Distribution Share
- Figure 66. Distributors Profiles
- Figure 67. Years Considered
- Figure 68. Research Process
- Figure 69. Key Executives Interviewed

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