

Global Diode-Pumped Disc Laser Market Growth 2026-2032

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Abstracts

The global Diode-Pumped Disc Laser market size is predicted to grow from US\$ 543 million in 2025 to US\$ 947 million in 2032; it is expected to grow at a CAGR of 8.3% from 2026 to 2032.

Diode-pumped disk lasers are solid-state lasers that use semiconductor laser diodes as the pump source and a thin disk-shaped solid gain medium as the laser working medium. The gain medium is typically a crystal such as ytterbium-doped Yb:YAG, formed into a very thin disk and mounted on an efficient heat dissipation structure. The pump light is coupled into the disk through multiple reflections or a multi-pass pumping configuration, while the laser output is emitted in a direction approximately perpendicular to the disk surface. By shortening the heat conduction path, reducing thermal lensing effects, and improving beam quality, this structure enables high power, high efficiency, high beam quality, and good power scalability. It is mainly used in metal cutting, welding, brazing, surface treatment, additive manufacturing, microprocessing, precision manufacturing, automotive manufacturing, aerospace, electronics manufacturing, and scientific research.

RP Photonics defines a thin-disk laser as a specific type of diode-pumped solid-state laser in which the gain medium is a very thin disk, typically about 100-200 µm thick, mounted on a heat sink. This "active mirror" structure helps dissipate heat along the optical axis, thereby reducing thermal gradients and thermal lensing problems.

From the perspective of the industry's fundamental nature, diode-pumped disk lasers are a high-performance technology route within high-power solid-state lasers. Their core value lies in using a thin-disk gain medium and an efficient heat dissipation structure to address the thermal lensing, thermal distortion, and beam quality degradation that

traditional rod-type solid-state lasers tend to experience at high power levels. Compared with conventional DPSS lasers, the disk structure is more suitable for power scaling. Compared with fiber lasers, disk lasers still offer unique advantages in applications requiring high beam quality, high pulse energy, specific wavelength conversion, and ultrafast amplification. Therefore, they are not the most widely adopted laser type, but they have clear technical value in high-end industrial processing and scientific laser systems. From the perspective of demand structure, industrial processing is the most important application area for diode-pumped disk lasers, especially in metal welding, brazing, cutting, surface treatment, cladding, and additive manufacturing. Automotive manufacturing is one of the key demand sources, as body welding, powertrain processing, battery structural component joining, and high-strength steel processing all require high-power and high-stability laser sources. Aerospace, precision machinery, and electronics manufacturing place greater emphasis on beam quality, processing stability, and material compatibility. Although the market size of scientific research and ultrafast laser applications is smaller than that of industrial processing, they require higher technical performance and have higher unit value, particularly in picosecond / femtosecond amplification, nonlinear frequency conversion, and high-average-power ultrafast laser systems. From the perspective of technology routes, continuous-wave thin-disk lasers mainly serve high-power industrial processing applications, emphasizing output power, beam quality, efficiency, and long-term stability. Pulsed thin-disk lasers and ultrafast thin-disk lasers are more commonly used in microprocessing, precision processing, and scientific research applications, emphasizing peak power, pulse energy, repetition rate, and thermal stability. Yb:YAG is one of the most typical gain media used in thin-disk lasers, as it is well suited for high-efficiency diode pumping and high-power output. Future product upgrades will focus on higher average power, higher electro-optical efficiency, better beam quality, more stable thermal management, multi-wavelength output, ultrafast pulse amplification, and integration with automated processing systems. From the perspective of the competitive landscape, the diode-pumped disk laser market is relatively concentrated. This is especially true in industrial thin-disk lasers, where TRUMPF is the most representative commercial supplier. Its TruDisk series has strong influence in automotive, sheet metal, welding, and industrial processing applications. By contrast, fiber laser manufacturers have formed strong competition in general-purpose cutting and welding markets, which is why disk lasers have not become the mainstream route for all industrial laser applications. In scientific research and ultrafast applications, there are more specialized manufacturers and system integrators, with competition focusing on high average power, pulse stability, beam quality, and system integration capabilities. Overall, this is not a low-entry-barrier price competition market; rather, its competitive barriers are determined by optical design, thermal management, pump coupling, gain media,

resonator control, and long-term reliability. From the perspective of market outlook, diode-pumped disk lasers are a steadily growing segment within the high-end laser market. Some demand in traditional metal processing will be affected by substitution from fiber lasers and price competition. However, thin-disk lasers will continue to see demand in high-quality welding, high-power and high-brightness processing, ultrafast laser amplification, precision manufacturing, and scientific research applications. New energy vehicles, power batteries, aerospace, additive manufacturing, and high-end microprocessing will continue to provide incremental opportunities. Key industry risks include substitution by fiber lasers and direct diode lasers, relatively high system costs, complex maintenance and optical alignment, long customer adoption cycles, and fluctuations in industrial capital expenditure. Overall, diode-pumped disk lasers are not the largest industrial laser route, but they are a high-end niche market that maintains competitiveness through high power, high beam quality, and thermal management advantages.

LP Information, Inc. (LPI) ' newest research report, the "Diode-Pumped Disc Laser Industry Forecast" looks at past sales and reviews total world Diode-Pumped Disc Laser sales in 2025, providing a comprehensive analysis by region and market sector of projected Diode-Pumped Disc Laser sales for 2026 through 2032. With Diode-Pumped Disc Laser sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Diode-Pumped Disc Laser industry.

This Insight Report provides a comprehensive analysis of the global Diode-Pumped Disc Laser landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Diode-Pumped Disc Laser portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Diode-Pumped Disc Laser market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Diode-Pumped Disc Laser and breaks down the forecast by Output Mode, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Diode-Pumped Disc Laser.

This report presents a comprehensive overview, market shares, and growth

opportunities of Diode-Pumped Disc Laser market by product type, application, key manufacturers and key regions and countries.

Segmentation by Output Mode:

Continuous-wave Thin-disk Lasers

Pulsed Thin-disk Lasers

Ultrafast Thin-disk Lasers

Q-switched Thin-disk Lasers

Mode-locked Thin-disk Lasers

Segmentation by Power Level:

Low-power Thin-disk Lasers

Medium-power Thin-disk Lasers

High-power Thin-disk Lasers

Ultra-high-power Thin-disk Lasers

Segmentation by Pulse Duration:

Continuous-wave

Millisecond Pulsed

Nanosecond Pulsed

Picosecond Pulsed

Femtosecond Pulsed

Segmentation by Application:

Laser Welding

Laser Cutting

Laser Brazing

Surface Treatment

Additive Manufacturing

Microprocessing

Scientific Research

Frequency Conversion

Medical Science

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

TRUMPF

TRUMPF Scientific Lasers

Dausinger + Giesen GmbH

Jenoptik

Light Conversion

Amplitude

EKSPLA

Coherent

Key Questions Addressed in this Report

What is the 10-year outlook for the global Diode-Pumped Disc Laser market?

What factors are driving Diode-Pumped Disc Laser market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Diode-Pumped Disc Laser market opportunities vary by end market size?

How does Diode-Pumped Disc Laser break out by Output Mode, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Diode-Pumped Disc Laser Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Diode-Pumped Disc Laser by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Diode-Pumped Disc Laser by Country/Region, 2021, 2025 & 2032
- 2.2 Diode-Pumped Disc Laser Segment by Output Mode
 - 2.2.1 Continuous-wave Thin-disk Lasers
 - 2.2.2 Pulsed Thin-disk Lasers
 - 2.2.3 Ultrafast Thin-disk Lasers
 - 2.2.4 Q-switched Thin-disk Lasers
 - 2.2.5 Mode-locked Thin-disk Lasers
 - 2.2.6 Diode-Pumped Disc Laser Sales by Output Mode
 - 2.2.6.1 Global Diode-Pumped Disc Laser Sales Market Share by Output Mode (2021-2026)
 - 2.2.6.2 Global Diode-Pumped Disc Laser Revenue and Market Share by Output Mode (2021-2026)
 - 2.2.6.3 Global Diode-Pumped Disc Laser Sale Price by Output Mode (2021-2026)
- 2.3 Diode-Pumped Disc Laser Segment by Power Level
 - 2.3.1 Low-power Thin-disk Lasers
 - 2.3.2 Medium-power Thin-disk Lasers
 - 2.3.3 High-power Thin-disk Lasers
 - 2.3.4 Ultra-high-power Thin-disk Lasers
 - 2.3.5 Diode-Pumped Disc Laser Sales by Power Level

2.3.5.1 Global Diode-Pumped Disc Laser Sales Market Share by Power Level
(2021-2026)

2.3.5.2 Global Diode-Pumped Disc Laser Revenue and Market Share by Power Level
(2021-2026)

2.3.5.3 Global Diode-Pumped Disc Laser Sale Price by Power Level (2021-2026)

2.4 Diode-Pumped Disc Laser Segment by Pulse Duration

2.4.1 Continuous-wave

2.4.2 Millisecond Pulsed

2.4.3 Nanosecond Pulsed

2.4.4 Picosecond Pulsed

2.4.5 Femtosecond Pulsed

2.4.6 Diode-Pumped Disc Laser Sales by Pulse Duration

2.4.6.1 Global Diode-Pumped Disc Laser Sales Market Share by Pulse Duration
(2021-2026)

2.4.6.2 Global Diode-Pumped Disc Laser Revenue and Market Share by Pulse
Duration (2021-2026)

2.4.6.3 Global Diode-Pumped Disc Laser Sale Price by Pulse Duration (2021-2026)

2.5 Diode-Pumped Disc Laser Segment by Application

2.5.1 Laser Welding

2.5.2 Laser Cutting

2.5.3 Laser Brazing

2.5.4 Surface Treatment

2.5.5 Additive Manufacturing

2.5.6 Microprocessing

2.5.7 Scientific Research

2.5.8 Frequency Conversion

2.5.9 Medical Science

2.5.10 Diode-Pumped Disc Laser Sales by Application

2.5.10.1 Global Diode-Pumped Disc Laser Sale Market Share by Application
(2021-2026)

2.5.10.2 Global Diode-Pumped Disc Laser Revenue and Market Share by Application
(2021-2026)

2.5.10.3 Global Diode-Pumped Disc Laser Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Diode-Pumped Disc Laser Breakdown Data by Company

3.1.1 Global Diode-Pumped Disc Laser Annual Sales by Company (2021-2026)

3.1.2 Global Diode-Pumped Disc Laser Sales Market Share by Company (2021-2026)

3.2 Global Diode-Pumped Disc Laser Annual Revenue by Company (2021-2026)

3.2.1 Global Diode-Pumped Disc Laser Revenue by Company (2021-2026)

3.2.2 Global Diode-Pumped Disc Laser Revenue Market Share by Company (2021-2026)

3.3 Global Diode-Pumped Disc Laser Sale Price by Company

3.4 Key Manufacturers Diode-Pumped Disc Laser Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Diode-Pumped Disc Laser Product Location Distribution

3.4.2 Players Diode-Pumped Disc Laser Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR DIODE-PUMPED DISC LASER BY GEOGRAPHIC REGION

4.1 World Historic Diode-Pumped Disc Laser Market Size by Geographic Region (2021-2026)

4.1.1 Global Diode-Pumped Disc Laser Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Diode-Pumped Disc Laser Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Diode-Pumped Disc Laser Market Size by Country/Region (2021-2026)

4.2.1 Global Diode-Pumped Disc Laser Annual Sales by Country/Region (2021-2026)

4.2.2 Global Diode-Pumped Disc Laser Annual Revenue by Country/Region (2021-2026)

4.3 Americas Diode-Pumped Disc Laser Sales Growth

4.4 APAC Diode-Pumped Disc Laser Sales Growth

4.5 Europe Diode-Pumped Disc Laser Sales Growth

4.6 Middle East & Africa Diode-Pumped Disc Laser Sales Growth

5 AMERICAS

5.1 Americas Diode-Pumped Disc Laser Sales by Country

5.1.1 Americas Diode-Pumped Disc Laser Sales by Country (2021-2026)

5.1.2 Americas Diode-Pumped Disc Laser Revenue by Country (2021-2026)

5.2 Americas Diode-Pumped Disc Laser Sales by Output Mode (2021-2026)

5.3 Americas Diode-Pumped Disc Laser Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Diode-Pumped Disc Laser Sales by Region

6.1.1 APAC Diode-Pumped Disc Laser Sales by Region (2021-2026)

6.1.2 APAC Diode-Pumped Disc Laser Revenue by Region (2021-2026)

6.2 APAC Diode-Pumped Disc Laser Sales by Output Mode (2021-2026)

6.3 APAC Diode-Pumped Disc Laser Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Diode-Pumped Disc Laser by Country

7.1.1 Europe Diode-Pumped Disc Laser Sales by Country (2021-2026)

7.1.2 Europe Diode-Pumped Disc Laser Revenue by Country (2021-2026)

7.2 Europe Diode-Pumped Disc Laser Sales by Output Mode (2021-2026)

7.3 Europe Diode-Pumped Disc Laser Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Diode-Pumped Disc Laser by Country

8.1.1 Middle East & Africa Diode-Pumped Disc Laser Sales by Country (2021-2026)

8.1.2 Middle East & Africa Diode-Pumped Disc Laser Revenue by Country
(2021-2026)

8.2 Middle East & Africa Diode-Pumped Disc Laser Sales by Output Mode (2021-2026)

8.3 Middle East & Africa Diode-Pumped Disc Laser Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Diode-Pumped Disc Laser

10.3 Manufacturing Process Analysis of Diode-Pumped Disc Laser

10.4 Industry Chain Structure of Diode-Pumped Disc Laser

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Diode-Pumped Disc Laser Distributors

11.3 Diode-Pumped Disc Laser Customer

12 WORLD FORECAST REVIEW FOR DIODE-PUMPED DISC LASER BY GEOGRAPHIC REGION

12.1 Global Diode-Pumped Disc Laser Market Size Forecast by Region

12.1.1 Global Diode-Pumped Disc Laser Forecast by Region (2027-2032)

12.1.2 Global Diode-Pumped Disc Laser Annual Revenue Forecast by Region
(2027-2032)

12.2 Americas Forecast by Country (2027-2032)

- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Diode-Pumped Disc Laser Forecast by Output Mode (2027-2032)
- 12.7 Global Diode-Pumped Disc Laser Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 TRUMPF

- 13.1.1 TRUMPF Company Information
- 13.1.2 TRUMPF Diode-Pumped Disc Laser Product Portfolios and Specifications
- 13.1.3 TRUMPF Diode-Pumped Disc Laser Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.1.4 TRUMPF Main Business Overview
- 13.1.5 TRUMPF Latest Developments

13.2 TRUMPF Scientific Lasers

- 13.2.1 TRUMPF Scientific Lasers Company Information
- 13.2.2 TRUMPF Scientific Lasers Diode-Pumped Disc Laser Product Portfolios and Specifications
- 13.2.3 TRUMPF Scientific Lasers Diode-Pumped Disc Laser Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.2.4 TRUMPF Scientific Lasers Main Business Overview
- 13.2.5 TRUMPF Scientific Lasers Latest Developments

13.3 Dausinger + Giesen GmbH

- 13.3.1 Dausinger + Giesen GmbH Company Information
- 13.3.2 Dausinger + Giesen GmbH Diode-Pumped Disc Laser Product Portfolios and Specifications
- 13.3.3 Dausinger + Giesen GmbH Diode-Pumped Disc Laser Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.3.4 Dausinger + Giesen GmbH Main Business Overview
- 13.3.5 Dausinger + Giesen GmbH Latest Developments

13.4 Jenoptik

- 13.4.1 Jenoptik Company Information
- 13.4.2 Jenoptik Diode-Pumped Disc Laser Product Portfolios and Specifications
- 13.4.3 Jenoptik Diode-Pumped Disc Laser Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.4.4 Jenoptik Main Business Overview
- 13.4.5 Jenoptik Latest Developments

13.5 Light Conversion

- 13.5.1 Light Conversion Company Information
- 13.5.2 Light Conversion Diode-Pumped Disc Laser Product Portfolios and Specifications
- 13.5.3 Light Conversion Diode-Pumped Disc Laser Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.5.4 Light Conversion Main Business Overview
- 13.5.5 Light Conversion Latest Developments
- 13.6 Amplitude
 - 13.6.1 Amplitude Company Information
 - 13.6.2 Amplitude Diode-Pumped Disc Laser Product Portfolios and Specifications
 - 13.6.3 Amplitude Diode-Pumped Disc Laser Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Amplitude Main Business Overview
 - 13.6.5 Amplitude Latest Developments
- 13.7 EKSPLA
 - 13.7.1 EKSPLA Company Information
 - 13.7.2 EKSPLA Diode-Pumped Disc Laser Product Portfolios and Specifications
 - 13.7.3 EKSPLA Diode-Pumped Disc Laser Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 EKSPLA Main Business Overview
 - 13.7.5 EKSPLA Latest Developments
- 13.8 Coherent
 - 13.8.1 Coherent Company Information
 - 13.8.2 Coherent Diode-Pumped Disc Laser Product Portfolios and Specifications
 - 13.8.3 Coherent Diode-Pumped Disc Laser Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 Coherent Main Business Overview
 - 13.8.5 Coherent Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Diode-Pumped Disc Laser Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Diode-Pumped Disc Laser Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Continuous-wave Thin-disk Lasers

Table 4. Major Players of Pulsed Thin-disk Lasers

Table 5. Major Players of Ultrafast Thin-disk Lasers

Table 6. Major Players of Q-switched Thin-disk Lasers

Table 7. Major Players of Mode-locked Thin-disk Lasers

Table 8. Global Diode-Pumped Disc Laser Sales by Output Mode (2021-2026) & (K Units)

Table 9. Global Diode-Pumped Disc Laser Sales Market Share by Output Mode (2021-2026)

Table 10. Global Diode-Pumped Disc Laser Revenue by Output Mode (2021-2026) & (\$ million)

Table 11. Global Diode-Pumped Disc Laser Revenue Market Share by Output Mode (2021-2026)

Table 12. Global Diode-Pumped Disc Laser Sale Price by Output Mode (2021-2026) & (US\$/Unit)

Table 13. Major Players of Low-power Thin-disk Lasers

Table 14. Major Players of Medium-power Thin-disk Lasers

Table 15. Major Players of High-power Thin-disk Lasers

Table 16. Major Players of Ultra-high-power Thin-disk Lasers

Table 17. Global Diode-Pumped Disc Laser Sales by Power Level (2021-2026) & (K Units)

Table 18. Global Diode-Pumped Disc Laser Sales Market Share by Power Level (2021-2026)

Table 19. Global Diode-Pumped Disc Laser Revenue by Power Level (2021-2026) & (\$ million)

Table 20. Global Diode-Pumped Disc Laser Revenue Market Share by Power Level (2021-2026)

Table 21. Global Diode-Pumped Disc Laser Sale Price by Power Level (2021-2026) & (US\$/Unit)

Table 22. Major Players of Continuous-wave

Table 23. Major Players of Millisecond Pulsed

Table 24. Major Players of Nanosecond Pulsed

Table 25. Major Players of Picosecond Pulsed

Table 26. Major Players of Femtosecond Pulsed

Table 27. Global Diode-Pumped Disc Laser Sales by Pulse Duration (2021-2026) & (K Units)

Table 28. Global Diode-Pumped Disc Laser Sales Market Share by Pulse Duration (2021-2026)

Table 29. Global Diode-Pumped Disc Laser Revenue by Pulse Duration (2021-2026) & (\$ million)

Table 30. Global Diode-Pumped Disc Laser Revenue Market Share by Pulse Duration (2021-2026)

Table 31. Global Diode-Pumped Disc Laser Sale Price by Pulse Duration (2021-2026) & (US\$/Unit)

Table 32. Global Diode-Pumped Disc Laser Sale by Application (2021-2026) & (K Units)

Table 33. Global Diode-Pumped Disc Laser Sale Market Share by Application (2021-2026)

Table 34. Global Diode-Pumped Disc Laser Revenue by Application (2021-2026) & (\$ million)

Table 35. Global Diode-Pumped Disc Laser Revenue Market Share by Application (2021-2026)

Table 36. Global Diode-Pumped Disc Laser Sale Price by Application (2021-2026) & (US\$/Unit)

Table 37. Global Diode-Pumped Disc Laser Sales by Company (2021-2026) & (K Units)

Table 38. Global Diode-Pumped Disc Laser Sales Market Share by Company (2021-2026)

Table 39. Global Diode-Pumped Disc Laser Revenue by Company (2021-2026) & (\$ millions)

Table 40. Global Diode-Pumped Disc Laser Revenue Market Share by Company (2021-2026)

Table 41. Global Diode-Pumped Disc Laser Sale Price by Company (2021-2026) & (US\$/Unit)

Table 42. Key Manufacturers Diode-Pumped Disc Laser Producing Area Distribution and Sales Area

Table 43. Players Diode-Pumped Disc Laser Products Offered

Table 44. Diode-Pumped Disc Laser Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 45. New Products and Potential Entrants

Table 46. Market M&A Activity & Strategy

Table 47. Global Diode-Pumped Disc Laser Sales by Geographic Region (2021-2026) &

(K Units)

Table 48. Global Diode-Pumped Disc Laser Sales Market Share Geographic Region (2021-2026)

Table 49. Global Diode-Pumped Disc Laser Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 50. Global Diode-Pumped Disc Laser Revenue Market Share by Geographic Region (2021-2026)

Table 51. Global Diode-Pumped Disc Laser Sales by Country/Region (2021-2026) & (K Units)

Table 52. Global Diode-Pumped Disc Laser Sales Market Share by Country/Region (2021-2026)

Table 53. Global Diode-Pumped Disc Laser Revenue by Country/Region (2021-2026) & (\$ millions)

Table 54. Global Diode-Pumped Disc Laser Revenue Market Share by Country/Region (2021-2026)

Table 55. Americas Diode-Pumped Disc Laser Sales by Country (2021-2026) & (K Units)

Table 56. Americas Diode-Pumped Disc Laser Sales Market Share by Country (2021-2026)

Table 57. Americas Diode-Pumped Disc Laser Revenue by Country (2021-2026) & (\$ millions)

Table 58. Americas Diode-Pumped Disc Laser Sales by Output Mode (2021-2026) & (K Units)

Table 59. Americas Diode-Pumped Disc Laser Sales by Application (2021-2026) & (K Units)

Table 60. APAC Diode-Pumped Disc Laser Sales by Region (2021-2026) & (K Units)

Table 61. APAC Diode-Pumped Disc Laser Sales Market Share by Region (2021-2026)

Table 62. APAC Diode-Pumped Disc Laser Revenue by Region (2021-2026) & (\$ millions)

Table 63. APAC Diode-Pumped Disc Laser Sales by Output Mode (2021-2026) & (K Units)

Table 64. APAC Diode-Pumped Disc Laser Sales by Application (2021-2026) & (K Units)

Table 65. Europe Diode-Pumped Disc Laser Sales by Country (2021-2026) & (K Units)

Table 66. Europe Diode-Pumped Disc Laser Revenue by Country (2021-2026) & (\$ millions)

Table 67. Europe Diode-Pumped Disc Laser Sales by Output Mode (2021-2026) & (K Units)

Table 68. Europe Diode-Pumped Disc Laser Sales by Application (2021-2026) & (K

Units)

Table 69. Middle East & Africa Diode-Pumped Disc Laser Sales by Country
(2021-2026) & (K Units)

Table 70. Middle East & Africa Diode-Pumped Disc Laser Revenue Market Share by
Country (2021-2026)

Table 71. Middle East & Africa Diode-Pumped Disc Laser Sales by Output Mode
(2021-2026) & (K Units)

Table 72. Middle East & Africa Diode-Pumped Disc Laser Sales by Application
(2021-2026) & (K Units)

Table 73. Key Market Drivers & Growth Opportunities of Diode-Pumped Disc Laser

Table 74. Key Market Challenges & Risks of Diode-Pumped Disc Laser

Table 75. Key Industry Trends of Diode-Pumped Disc Laser

Table 76. Diode-Pumped Disc Laser Raw Material

Table 77. Key Suppliers of Raw Materials

Table 78. Diode-Pumped Disc Laser Distributors List

Table 79. Diode-Pumped Disc Laser Customer List

Table 80. Global Diode-Pumped Disc Laser Sales Forecast by Region (2027-2032) & (K
Units)

Table 81. Global Diode-Pumped Disc Laser Revenue Forecast by Region (2027-2032)
& (\$ millions)

Table 82. Americas Diode-Pumped Disc Laser Sales Forecast by Country (2027-2032)
& (K Units)

Table 83. Americas Diode-Pumped Disc Laser Annual Revenue Forecast by Country
(2027-2032) & (\$ millions)

Table 84. APAC Diode-Pumped Disc Laser Sales Forecast by Region (2027-2032) & (K
Units)

Table 85. APAC Diode-Pumped Disc Laser Annual Revenue Forecast by Region
(2027-2032) & (\$ millions)

Table 86. Europe Diode-Pumped Disc Laser Sales Forecast by Country (2027-2032) &
(K Units)

Table 87. Europe Diode-Pumped Disc Laser Revenue Forecast by Country (2027-2032)
& (\$ millions)

Table 88. Middle East & Africa Diode-Pumped Disc Laser Sales Forecast by Country
(2027-2032) & (K Units)

Table 89. Middle East & Africa Diode-Pumped Disc Laser Revenue Forecast by Country
(2027-2032) & (\$ millions)

Table 90. Global Diode-Pumped Disc Laser Sales Forecast by Output Mode
(2027-2032) & (K Units)

Table 91. Global Diode-Pumped Disc Laser Revenue Forecast by Output Mode

(2027-2032) & (\$ millions)

Table 92. Global Diode-Pumped Disc Laser Sales Forecast by Application (2027-2032) & (K Units)

Table 93. Global Diode-Pumped Disc Laser Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 94. TRUMPF Basic Information, Diode-Pumped Disc Laser Manufacturing Base, Sales Area and Its Competitors

Table 95. TRUMPF Diode-Pumped Disc Laser Product Portfolios and Specifications

Table 96. TRUMPF Diode-Pumped Disc Laser Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 97. TRUMPF Main Business

Table 98. TRUMPF Latest Developments

Table 99. TRUMPF Scientific Lasers Basic Information, Diode-Pumped Disc Laser Manufacturing Base, Sales Area and Its Competitors

Table 100. TRUMPF Scientific Lasers Diode-Pumped Disc Laser Product Portfolios and Specifications

Table 101. TRUMPF Scientific Lasers Diode-Pumped Disc Laser Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 102. TRUMPF Scientific Lasers Main Business

Table 103. TRUMPF Scientific Lasers Latest Developments

Table 104. Dausinger + Giesen GmbH Basic Information, Diode-Pumped Disc Laser Manufacturing Base, Sales Area and Its Competitors

Table 105. Dausinger + Giesen GmbH Diode-Pumped Disc Laser Product Portfolios and Specifications

Table 106. Dausinger + Giesen GmbH Diode-Pumped Disc Laser Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 107. Dausinger + Giesen GmbH Main Business

Table 108. Dausinger + Giesen GmbH Latest Developments

Table 109. Jenoptik Basic Information, Diode-Pumped Disc Laser Manufacturing Base, Sales Area and Its Competitors

Table 110. Jenoptik Diode-Pumped Disc Laser Product Portfolios and Specifications

Table 111. Jenoptik Diode-Pumped Disc Laser Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 112. Jenoptik Main Business

Table 113. Jenoptik Latest Developments

Table 114. Light Conversion Basic Information, Diode-Pumped Disc Laser Manufacturing Base, Sales Area and Its Competitors

Table 115. Light Conversion Diode-Pumped Disc Laser Product Portfolios and Specifications

Table 116. Light Conversion Diode-Pumped Disc Laser Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 117. Light Conversion Main Business

Table 118. Light Conversion Latest Developments

Table 119. Amplitude Basic Information, Diode-Pumped Disc Laser Manufacturing Base, Sales Area and Its Competitors

Table 120. Amplitude Diode-Pumped Disc Laser Product Portfolios and Specifications

Table 121. Amplitude Diode-Pumped Disc Laser Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 122. Amplitude Main Business

Table 123. Amplitude Latest Developments

Table 124. EKSPLA Basic Information, Diode-Pumped Disc Laser Manufacturing Base, Sales Area and Its Competitors

Table 125. EKSPLA Diode-Pumped Disc Laser Product Portfolios and Specifications

Table 126. EKSPLA Diode-Pumped Disc Laser Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 127. EKSPLA Main Business

Table 128. EKSPLA Latest Developments

Table 129. Coherent Basic Information, Diode-Pumped Disc Laser Manufacturing Base, Sales Area and Its Competitors

Table 130. Coherent Diode-Pumped Disc Laser Product Portfolios and Specifications

Table 131. Coherent Diode-Pumped Disc Laser Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 132. Coherent Main Business

Table 133. Coherent Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Diode-Pumped Disc Laser
- Figure 2. Diode-Pumped Disc Laser Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Diode-Pumped Disc Laser Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global Diode-Pumped Disc Laser Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Diode-Pumped Disc Laser Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Diode-Pumped Disc Laser Sales Market Share by Country/Region (2025)
- Figure 10. Diode-Pumped Disc Laser Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Continuous-wave Thin-disk Lasers
- Figure 12. Product Picture of Pulsed Thin-disk Lasers
- Figure 13. Product Picture of Ultrafast Thin-disk Lasers
- Figure 14. Product Picture of Q-switched Thin-disk Lasers
- Figure 15. Product Picture of Mode-locked Thin-disk Lasers
- Figure 16. Global Diode-Pumped Disc Laser Sales Market Share by Output Mode in 2026
- Figure 17. Global Diode-Pumped Disc Laser Revenue Market Share by Output Mode (2021-2026)
- Figure 18. Product Picture of Low-power Thin-disk Lasers
- Figure 19. Product Picture of Medium-power Thin-disk Lasers
- Figure 20. Product Picture of High-power Thin-disk Lasers
- Figure 21. Product Picture of Ultra-high-power Thin-disk Lasers
- Figure 22. Global Diode-Pumped Disc Laser Sales Market Share by Power Level in 2026
- Figure 23. Global Diode-Pumped Disc Laser Revenue Market Share by Power Level (2021-2026)
- Figure 24. Product Picture of Continuous-wave
- Figure 25. Product Picture of Millisecond Pulsed
- Figure 26. Product Picture of Nanosecond Pulsed
- Figure 27. Product Picture of Picosecond Pulsed
- Figure 28. Product Picture of Femtosecond Pulsed

Figure 29. Global Diode-Pumped Disc Laser Sales Market Share by Pulse Duration in 2026

Figure 30. Global Diode-Pumped Disc Laser Revenue Market Share by Pulse Duration (2021-2026)

Figure 31. Diode-Pumped Disc Laser Consumed in Laser Welding

Figure 32. Global Diode-Pumped Disc Laser Market: Laser Welding (2021-2026) & (K Units)

Figure 33. Diode-Pumped Disc Laser Consumed in Laser Cutting

Figure 34. Global Diode-Pumped Disc Laser Market: Laser Cutting (2021-2026) & (K Units)

Figure 35. Diode-Pumped Disc Laser Consumed in Laser Brazing

Figure 36. Global Diode-Pumped Disc Laser Market: Laser Brazing (2021-2026) & (K Units)

Figure 37. Diode-Pumped Disc Laser Consumed in Surface Treatment

Figure 38. Global Diode-Pumped Disc Laser Market: Surface Treatment (2021-2026) & (K Units)

Figure 39. Diode-Pumped Disc Laser Consumed in Additive Manufacturing

Figure 40. Global Diode-Pumped Disc Laser Market: Additive Manufacturing (2021-2026) & (K Units)

Figure 41. Diode-Pumped Disc Laser Consumed in Microprocessing

Figure 42. Global Diode-Pumped Disc Laser Market: Microprocessing (2021-2026) & (K Units)

Figure 43. Diode-Pumped Disc Laser Consumed in Scientific Research

Figure 44. Global Diode-Pumped Disc Laser Market: Scientific Research (2021-2026) & (K Units)

Figure 45. Diode-Pumped Disc Laser Consumed in Frequency Conversion

Figure 46. Global Diode-Pumped Disc Laser Market: Frequency Conversion (2021-2026) & (K Units)

Figure 47. Diode-Pumped Disc Laser Consumed in Medical Science

Figure 48. Global Diode-Pumped Disc Laser Market: Medical Science (2021-2026) & (K Units)

Figure 49. Global Diode-Pumped Disc Laser Sale Market Share by Application (2025)

Figure 50. Global Diode-Pumped Disc Laser Revenue Market Share by Application in 2025

Figure 51. Diode-Pumped Disc Laser Sales by Company in 2025 (K Units)

Figure 52. Global Diode-Pumped Disc Laser Sales Market Share by Company in 2025

Figure 53. Diode-Pumped Disc Laser Revenue by Company in 2025 (\$ millions)

Figure 54. Global Diode-Pumped Disc Laser Revenue Market Share by Company in 2025

Figure 55. Global Diode-Pumped Disc Laser Sales Market Share by Geographic Region (2021-2026)

Figure 56. Global Diode-Pumped Disc Laser Revenue Market Share by Geographic Region in 2025

Figure 57. Americas Diode-Pumped Disc Laser Sales 2021-2026 (K Units)

Figure 58. Americas Diode-Pumped Disc Laser Revenue 2021-2026 (\$ millions)

Figure 59. APAC Diode-Pumped Disc Laser Sales 2021-2026 (K Units)

Figure 60. APAC Diode-Pumped Disc Laser Revenue 2021-2026 (\$ millions)

Figure 61. Europe Diode-Pumped Disc Laser Sales 2021-2026 (K Units)

Figure 62. Europe Diode-Pumped Disc Laser Revenue 2021-2026 (\$ millions)

Figure 63. Middle East & Africa Diode-Pumped Disc Laser Sales 2021-2026 (K Units)

Figure 64. Middle East & Africa Diode-Pumped Disc Laser Revenue 2021-2026 (\$ millions)

Figure 65. Americas Diode-Pumped Disc Laser Sales Market Share by Country in 2025

Figure 66. Americas Diode-Pumped Disc Laser Revenue Market Share by Country (2021-2026)

Figure 67. Americas Diode-Pumped Disc Laser Sales Market Share by Output Mode (2021-2026)

Figure 68. Americas Diode-Pumped Disc Laser Sales Market Share by Application (2021-2026)

Figure 69. United States Diode-Pumped Disc Laser Revenue Growth 2021-2026 (\$ millions)

Figure 70. Canada Diode-Pumped Disc Laser Revenue Growth 2021-2026 (\$ millions)

Figure 71. Mexico Diode-Pumped Disc Laser Revenue Growth 2021-2026 (\$ millions)

Figure 72. Brazil Diode-Pumped Disc Laser Revenue Growth 2021-2026 (\$ millions)

Figure 73. APAC Diode-Pumped Disc Laser Sales Market Share by Region in 2025

Figure 74. APAC Diode-Pumped Disc Laser Revenue Market Share by Region (2021-2026)

Figure 75. APAC Diode-Pumped Disc Laser Sales Market Share by Output Mode (2021-2026)

Figure 76. APAC Diode-Pumped Disc Laser Sales Market Share by Application (2021-2026)

Figure 77. China Diode-Pumped Disc Laser Revenue Growth 2021-2026 (\$ millions)

Figure 78. Japan Diode-Pumped Disc Laser Revenue Growth 2021-2026 (\$ millions)

Figure 79. South Korea Diode-Pumped Disc Laser Revenue Growth 2021-2026 (\$ millions)

Figure 80. Southeast Asia Diode-Pumped Disc Laser Revenue Growth 2021-2026 (\$ millions)

Figure 81. India Diode-Pumped Disc Laser Revenue Growth 2021-2026 (\$ millions)

Figure 82. Australia Diode-Pumped Disc Laser Revenue Growth 2021-2026 (\$ millions)

Figure 83. China Taiwan Diode-Pumped Disc Laser Revenue Growth 2021-2026 (\$ millions)

Figure 84. Europe Diode-Pumped Disc Laser Sales Market Share by Country in 2025

Figure 85. Europe Diode-Pumped Disc Laser Revenue Market Share by Country (2021-2026)

Figure 86. Europe Diode-Pumped Disc Laser Sales Market Share by Output Mode (2021-2026)

Figure 87. Europe Diode-Pumped Disc Laser Sales Market Share by Application (2021-2026)

Figure 88. Germany Diode-Pumped Disc Laser Revenue Growth 2021-2026 (\$ millions)

Figure 89. France Diode-Pumped Disc Laser Revenue Growth 2021-2026 (\$ millions)

Figure 90. UK Diode-Pumped Disc Laser Revenue Growth 2021-2026 (\$ millions)

Figure 91. Italy Diode-Pumped Disc Laser Revenue Growth 2021-2026 (\$ millions)

Figure 92. Russia Diode-Pumped Disc Laser Revenue Growth 2021-2026 (\$ millions)

Figure 93. Middle East & Africa Diode-Pumped Disc Laser Sales Market Share by Country (2021-2026)

Figure 94. Middle East & Africa Diode-Pumped Disc Laser Sales Market Share by Output Mode (2021-2026)

Figure 95. Middle East & Africa Diode-Pumped Disc Laser Sales Market Share by Application (2021-2026)

Figure 96. Egypt Diode-Pumped Disc Laser Revenue Growth 2021-2026 (\$ millions)

Figure 97. South Africa Diode-Pumped Disc Laser Revenue Growth 2021-2026 (\$ millions)

Figure 98. Israel Diode-Pumped Disc Laser Revenue Growth 2021-2026 (\$ millions)

Figure 99. Turkey Diode-Pumped Disc Laser Revenue Growth 2021-2026 (\$ millions)

Figure 100. GCC Countries Diode-Pumped Disc Laser Revenue Growth 2021-2026 (\$ millions)

Figure 101. Manufacturing Cost Structure Analysis of Diode-Pumped Disc Laser in 2026

Figure 102. Manufacturing Process Analysis of Diode-Pumped Disc Laser

Figure 103. Industry Chain Structure of Diode-Pumped Disc Laser

Figure 104. Channels of Distribution

Figure 105. Global Diode-Pumped Disc Laser Sales Market Forecast by Region (2027-2032)

Figure 106. Global Diode-Pumped Disc Laser Revenue Market Share Forecast by Region (2027-2032)

Figure 107. Global Diode-Pumped Disc Laser Sales Market Share Forecast by Output Mode (2027-2032)

Figure 108. Global Diode-Pumped Disc Laser Revenue Market Share Forecast by

Output Mode (2027-2032)

Figure 109. Global Diode-Pumped Disc Laser Sales Market Share Forecast by Application (2027-2032)

Figure 110. Global Diode-Pumped Disc Laser Revenue Market Share Forecast by Application (2027-2032)

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