

# Global Thin-Disk Lasers Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global Thin-Disk Lasers market size was valued at US\$ 398 million in 2024 and is forecast to a readjusted size of USD 807 million by 2031 with a CAGR of 10.7% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

A thin-disk laser (sometimes called a thin-disk laser or active-mirror laser) is a special type of diode-pumped high-power solid-state laser that was introduced in the 1990s by Adolf Giesen's research group at the University of Stuttgart, Germany. It differs from conventional rod or slab lasers primarily in the geometry of the gain medium: the laser crystal is a thin disk whose thickness is much smaller than the laser beam diameter. The generated heat is extracted primarily via one end facet, i.e. in the longitudinal direction rather than in the transverse direction. The cooled end facet has a dielectric coating that reflects both the laser radiation and the pump radiation. The thin-disk is also often referred to as an active mirror, since it acts as a mirror with laser gain. Within a laser resonator, it can act as an end mirror or a folding mirror. In the latter case, the laser radiation passes through the resonator twice per round trip, so that the gain per round trip is doubled and the threshold pump power is reduced. Thin-disk lasers should not be confused with spinning-disk lasers, where the gain medium is a rapidly rotating disk that is typically a few millimeters thick.

This report is a detailed and comprehensive analysis for global Thin-Disk Lasers market. Both quantitative and qualitative analyses are presented by manufacturers, by

region & country, by Gain Media and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Thin-Disk Lasers market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Thin-Disk Lasers market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Thin-Disk Lasers market size and forecasts, by Gain Media and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Thin-Disk Lasers market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2020-2025

### **The Primary Objectives in This Report Are:**

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Thin-Disk Lasers
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Thin-Disk Lasers market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Jenoptik, Dausinger + Giesen, TRUMPF, Coherent, IPG Photonics, LUMERA LASER, NKT Photonics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

### **Market Segmentation**

Thin-Disk Lasers market is split by Gain Media and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Gain Media, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

#### Market segment by Gain Media

Yb:YAG

Nd:YAG

Others

#### Market segment by Application

Medical

Aerospace

Laser

Others

#### Major players covered

Jenoptik

Dausinger + Giesen

TRUMPF

Coherent

IPG Photonics

LUMERA LASER

## NKT Photonics

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

### **The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Thin-Disk Lasers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Thin-Disk Lasers, with price, sales quantity, revenue, and global market share of Thin-Disk Lasers from 2020 to 2025.

Chapter 3, the Thin-Disk Lasers competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Thin-Disk Lasers breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Gain Media and by Application, with sales market share and growth rate by Gain Media, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Thin-Disk Lasers market forecast, by regions, by Gain Media, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Thin-Disk Lasers.

Chapter 14 and 15, to describe Thin-Disk Lasers sales channel, distributors, customers, research findings and conclusion.

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