

# Global Nd:YAG Laser Crystal Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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## Abstracts

According to our (Global Info Research) latest study, the global Nd:YAG Laser Crystal market size was valued at USD million in 2022 and is forecast to a readjusted size of USD million by 2029 with a CAGR of % during review period. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

Neodymium-doped yttrium aluminum garnet (Nd:YAG) laser crystal is a common solid-state laser material used in laser amplifiers and resonators of lasers. It is a synthetic crystal made of yttrium aluminum garnet (YAG) crystal doped with a small amount of neodymium ions (Nd<sup>3+</sup>). Nd:YAG laser crystal has good optical and thermal properties, so it has been widely used in the field of laser technology. Nd:YAG laser can generate infrared laser with a wavelength of 1.064 microns, which has high energy conversion efficiency and short pulse width, and is suitable for many applications, including medical beauty, medical equipment, laser cutting, laser marking, laser welding, Laser ranging, laser communication, etc. Nd:YAG laser crystals usually exist in the form of rods or flakes, which can transmit light energy into the crystal by optical pumping, excite the transition of neodymium ions, and produce a laser amplification effect. Nd-doped yttrium aluminum garnet laser crystals are usually used together with other optical components (such as lenses, output couplers, etc.) in lasers to build a complete laser system and achieve specific laser output requirements.

This report is a detailed and comprehensive analysis for global Nd:YAG Laser Crystal market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type 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 2023, are provided.

#### Key Features:

Global Nd:YAG Laser Crystal market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Nd:YAG Laser Crystal market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Nd:YAG Laser Crystal market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Nd:YAG Laser Crystal market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2018-2023

#### 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 Nd:YAG Laser Crystal

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 Nd:YAG Laser Crystal market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include EKSMO Optics, ALPHALAS GmbH, Scientific Materials, Laser Materials Corporation and Northrop Grumman SYNOPTICS, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

#### Market Segmentation

Nd:YAG Laser Crystal market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, 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 Type

Rod

Flaky

Lumpy

Other

#### Market segment by Application

Laser Beauty

Laser Ranging

Laser Marking

Other

#### Major players covered

EKSMA Optics

ALPHALAS GmbH

Scientific Materials

Laser Materials Corporation

Northrop Grumman SYNOPTICS

WISOPTIC

FOCTEK

Fuzhou Laserstates Electronics Co., Ltd.

CASTECH, Inc

Crystik Co., Ltd

Union Optic

CRYLiNK

HG Optronics.,INC

Fujian Dayoptics Inc

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 Nd:YAG Laser Crystal product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Nd:YAG Laser Crystal, with price, sales, revenue and global market share of Nd:YAG Laser Crystal from 2018 to 2023.

Chapter 3, the Nd:YAG Laser Crystal competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Nd:YAG Laser Crystal breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

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 2017 to 2022. and Nd:YAG Laser Crystal market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of Nd:YAG Laser Crystal.

Chapter 14 and 15, to describe Nd:YAG Laser Crystal sales channel, distributors, customers, research findings and conclusion.

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