

Global Lasers for Quantum Technologies Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Lasers for Quantum Technologies market size is expected to reach \$ 970 million by 2032, rising at a market growth of 14.9% CAGR during the forecast period (2026-2032).

Lasers for quantum technologies refer to high-stability laser sources and laser systems designed to cool, trap, pump, probe, coherently manipulate, and frequency-reference atoms, ions, molecules, photons, and solid-state quantum systems used in quantum computing, quantum sensing, optical clocks, quantum communication, cold-atom experiments, and trapped-ion platforms. The scope of this study focuses on external-cavity diode lasers, narrow-linewidth DFB/DBR lasers, single-frequency fiber lasers, tunable Ti:sapphire lasers, frequency-converted UV/visible/NIR laser systems, ultrastable lasers, optical frequency combs, and integrated multi-channel rack-mounted quantum laser systems. Typical performance requirements include narrow linewidth, low phase noise, low relative intensity noise, high frequency stability, wavelength tunability, high power stability, atomic or ionic transition wavelength matching, long-term operational reliability, and system-level integration capability.

Based on our research, lasers for quantum technologies should not be treated as a conventional single-product laser category. The defining value of this market lies in frequency stability, linewidth, phase noise, relative intensity noise, wavelength accuracy, and the ability to integrate multiple optical channels around a specific atomic, ionic, molecular, or solid-state quantum platform. Cold-atom systems, trapped-ion systems, optical clocks, and quantum sensors normally require several lasers with different wavelengths, power levels, locking schemes, and frequency-conversion paths. Therefore, the commercial scope of this market increasingly extends from individual laser heads to amplifiers, frequency-doubling modules, optical frequency combs,

stabilization electronics, and rack-mounted laser subsystems. This is why this report adopts a narrow ?precision laser systems for quantum technologies? scope rather than including generic industrial lasers, broad scientific lasers, or the entire quantum cascade laser market.

From the demand side, quantum computing attracts the highest visibility, but near- and medium-term laser demand is broader than quantum computing alone. Optical clocks, atom interferometers, gravimeters, magnetometers, quantum timing, quantum networking, and AMO research platforms all require high-performance laser sources. Public policy support in the United States, Europe, the United Kingdom, and China continues to create long-term demand for quantum infrastructure and domestic supply-chain development. The key growth driver is not simply higher average selling prices for individual lasers; rather, it is the transition from laboratory experiments to engineered prototypes and field-deployable systems, which increases the need for multi-wavelength, multi-channel, low-SWaP, reliable, and serviceable laser subsystems.

From a technology-route perspective, external-cavity diode lasers and single-frequency fiber lasers remain the baseline architectures for many quantum applications. Frequency-converted ultraviolet and deep-ultraviolet lasers are becoming increasingly important for trapped-ion and neutral-atom platforms, while optical frequency combs and ultrastable lasers are essential for optical clocks, precision metrology, and time-frequency transfer. Chip-scale DFB/DBR lasers, visible DFB lasers, VECSELs, and photonic integration may reduce system size and complexity over time, but they are unlikely to fully replace mature laboratory and rack-mounted systems in the near term. Competitive differentiation will increasingly depend on the ability to deliver stable, repeatable, maintainable, and application-specific laser subsystems rather than simply supplying a single laser source.

This report studies the global Lasers for Quantum Technologies production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Lasers for Quantum Technologies and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Lasers for Quantum Technologies that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Lasers for Quantum Technologies total production and demand, 2021-2032,

(Units)

Global Lasers for Quantum Technologies total production value, 2021-2032, (USD Million)

Global Lasers for Quantum Technologies production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Lasers for Quantum Technologies consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Lasers for Quantum Technologies domestic production, consumption, key domestic manufacturers and share

Global Lasers for Quantum Technologies production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Lasers for Quantum Technologies production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Lasers for Quantum Technologies production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Lasers for Quantum Technologies 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 TOPTICA Photonics SE, Coherent Corp., MKS Inc., Hamamatsu Photonics K.K., Leonardo DRS, Inc., IPG Photonics Corporation, Thorlabs, Inc., Menlo Systems GmbH, Shanghai Precilasers Technology Co., Ltd., Vescent Technologies Inc., etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Lasers for Quantum Technologies market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Lasers for Quantum Technologies Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Lasers for Quantum Technologies Market, Segmentation by Type:

Narrow-linewidth Diode Lasers

Single-frequency Fiber Lasers

Tunable Solid-state Lasers

Other

Global Lasers for Quantum Technologies Market, Segmentation by Wavelength Range:

Ultraviolet / Deep-ultraviolet Lasers

Visible Lasers

Near-infrared Lasers

Telecom-band Lasers

Mid-infrared Lasers

Multi-wavelength Laser Systems

Global Lasers for Quantum Technologies Market, Segmentation by Technical Function:

Cooling and Trapping Lasers

Pumping Lasers

Probe and Readout Lasers

Manipulation Lasers

Frequency Reference Lasers

Calibration and Metrology Lasers

Global Lasers for Quantum Technologies Market, Segmentation by Gain Medium:

Semiconductor Lasers

Fiber Lasers

Solid-state Lasers

Other Laser Sources

Global Lasers for Quantum Technologies Market, Segmentation by Application:

Quantum Computing

Quantum Sensing and Metrology

Optical Clocks and Time-frequency

Quantum Communication

AMO Research

Other Quantum-related Applications

Companies Profiled:

TOPTICA Photonics SE

Coherent Corp.

MKS Inc.

Hamamatsu Photonics K.K.

Leonardo DRS, Inc.

IPG Photonics Corporation

Thorlabs, Inc.

Menlo Systems GmbH

Shanghai Precilasers Technology Co., Ltd.

Vescent Technologies Inc.

santec Holdings Corporation

H?BNER Photonics GmbH

Photodigm, Inc.

RIO Lasers

indie Semiconductor, Inc.

Lumibird S.A.

AOSense Inc.

Sacher Lasertechnik GmbH

Novacene Photonics Ltd

OXIDE Corporation

Vexlum Ltd.

Oxxius SA

EKSPLA UAB

MPB Communications Inc.

Azurlight Systems SAS

Orbits Lightwave Inc.

OEwaves Inc.

Stable Laser Systems

Octave Photonics Inc.

InPhenix Inc.

Eblana Photonics Ltd.

Beijing Wavicle Optoelectronic Technology Co., Ltd.

Beijing UniQuanta Technology Co., Ltd.

Shanghai Connet Fiber Optics Co., Ltd.

Changchun New Industries Optoelectronics Technology Co., Ltd.

Key Questions Answered:

1. How big is the global Lasers for Quantum Technologies market?
2. What is the demand of the global Lasers for Quantum Technologies market?
3. What is the year over year growth of the global Lasers for Quantum Technologies market?
4. What is the production and production value of the global Lasers for Quantum Technologies market?
5. Who are the key producers in the global Lasers for Quantum Technologies market?
6. What are the growth factors driving the market demand?

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