

# **Surgical Laser Fiber Units Market Size and Forecast (2021 - 2031), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Laser Type (CO2 Laser, Diode Laser, Erbium Laser, Nd:YAG Laser, Holmium Laser, Alexandrite Laser, and Others), Material (Silica-Based Fibers, Quartz Fibers, Polymer-Based Fibers, Multimode Fibers, and Others), Power (Low-Power Lasers, Medium-Power Lasers, and High-Power Lasers), Application (Urology, Dermatology, Gynecology, Cardiology, Neurology, Ophthalmology, Respiratory, Dentistry and Others), Wavelength (9,301 nm and above, 2,941–9,300 nm, and 1,441–2,940 nm, 821–1,440 nm, 710–820 nm, and below 710 nm), End User (Hospitals, Specialty Clinics, Physician Office, and Others), and Geography**

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## **Abstracts**

The surgical laser fiber units market size is projected to reach US\$ 1,072.03 million by 2031 from US\$ 705.88 million in 2024; the market is estimated to record a CAGR of 6.2% during 2024–2031. Major factors driving the market growth include The increasing adoption of minimally invasive surgeries and the surging product launches. Further, Integration of artificial intelligence is likely to boost the market during the forecast period. However, inability to provide long-term relief and availability of alternatives among the market deterrents.

As the field of photonics evolves, laser fibers continue to be a preferred choice by medical professionals for diagnostics and therapeutic applications. These fibers have been adopted rapidly due to their physical characteristics, consisting of a fiber waveguide structure. A wide variety of wavelengths generated through laser fibers and the diversity of physical mechanisms used in pulse generation also supplement the flexibility of fiber laser technology.

Several market players are launching innovative medical laser fibers in the market, which is likely to boost the global medical laser fibers market growth. A few recent product launches in the global medical laser fibers market are as follows:

- In August 2023, InnoVoyce launched a new 300-micron fiber designed to deliver greater flexibility and control during vocal repair procedures. With the assistance of a new delivery system, physicians can improve these aspects to target treatment areas and minimize the risk of damage to surrounding tissue.
- In February 2023, Honeywell introduced 25 decitex ultra-fine fiber to its Spectra Medical Grade (MG) BIO portfolio at MD&M West. This fiber is designed for minimally invasive cardiovascular and orthopedic devices, offering greater strength and improved longevity than traditional materials like polyester and nylon.
- In February 2023, OFS, a leading designer and manufacturer of innovative fiber optic products, announced that it showcased its 150 W Raman Fiber Laser Module at the Photonics West Exposition in San Francisco. OFS offers advanced, easily integrated modules based on their high-power CW fiber laser platform, enabling quick customer integration and development.

Therefore, the emergence of innovations is expected to drive the demand for medical laser fibers in the upcoming years.

Further, integrating AI with medical lasers is transforming surgical procedures by enhancing precision. AI technologies optimize laser parameters, improve patient outcomes, and streamline workflows. AI algorithms provide better control and calibration of laser systems, ensuring consistent performance. These systems analyze real-time data during procedures, enabling adjustments based on tissue response, which is vital for complex surgeries involving soft tissues or tumors. AI also aids in data analysis, offering healthcare professionals insights for informed treatment decisions by examining large datasets from previous procedures. This trend is particularly significant in

oncology and cardiology, where precise interventions are crucial. Moreover, AI-driven predictive maintenance monitors laser system performance, identifying potential issues in advance. This approach reduces downtime and maintenance costs, ensuring efficient medical facility operations and avoiding equipment failure. For example, IPG Photonics Corporation has developed AI systems that improve workflow efficiency and safety during procedures. Therefore, adopting AI in the medical laser fibers represents a major advancement in surgical technology, improving treatment effectiveness and operational efficiency in healthcare settings.

The comparative company analysis evaluates and categorizes the surgical laser fiber units market based on product portfolio (product satisfaction, product features, and availability), recent market developments (merger & acquisition, new product launch & enhancement, investment & funding, award, agreement, collaboration, & partnership, recognition, and expansion), and geographic presence that aids better decision-making and understanding of the competitive landscape. The report profoundly explores the recent significant developments and innovations by the leading vendors in the global surgical laser fiber units market. The key market players are Richard Wolf GmbH; Hyper Photonics s.r.l.; Boston Scientific Corp; biolitec AG (Biolitec); Wuhan Pioon Technology Co., Ltd; Olympus Corp; Heraeus Group; Cook Medical Holdings LLC; Karl Storz SE & Co KG; INVAMED; Clarion Medical Technologies.; Becton Dickinson and Co; MED-Fibers, Inc; and OmniGuide Holdings, Inc.

The surgical laser fiber units market, based on laser type, is segmented into CO2 lasers, diode lasers, erbium lasers, Nd:Yag lasers, holmium lasers, alexandrite lasers, and others.

In terms of material, silica-based fibers, quartz fibers, polymer-based fibers, multimode fibers, and others. The silica-based fibers segment held the largest surgical laser fiber units market share in 2024.

The global surgical laser fiber units market, based on power, is segmented into low-power lasers, medium-power lasers, and high-power lasers. The high-power lasers segment held the largest share of the market in 2024.

The global surgical laser fiber units market, based on application, is segmented into urology, dermatology, ophthalmology, cardiovascular, respiratory, neurology, and others. The ophthalmology segment held the largest surgical laser fiber units market share in 2024.

Based on wavelength, the medical laser fibers market is segmented as 9,301 nm and above, 2,941–9,300 nm, and 1,441–2,940 nm, 821–1,440 nm, 710–820 nm, and below 710 nm. The 9,301 nm and above segment held the largest share of the market in 2024.

The surgical laser fiber units market, based on end user, is segmented into hospitals, specialty clinics, ambulatory surgery centers, and others. The hospitals segment held the largest share of the market in 2024.

Various organic and inorganic strategies are adopted by companies operating in the surgical laser fiber units market. The organic strategies mainly include product launches and product approvals. Inorganic growth strategies witnessed in the market are acquisitions, collaboration, and partnerships. These growth strategies allow the market players to expand their businesses and enhance their geographic presence, along with contributing to the overall market growth. Furthermore, strategies such as acquisitions and partnerships helped strengthen their customer base and extend their product portfolios. A few of the significant developments by key players in the surgical laser fiber units market are listed below.

In June 2024, Richards Packaging Income Fund today announced the acquisition of all outstanding shares of Insight Medical Technologies ("Insight Medical") through its subsidiary, Clarion Medical Technologies Inc. Insight Medical is a Calgary-based distributor of vision care products that serves optometry and ophthalmology clinics across Canada. The total purchase price for this acquisition is US\$ 5.3 million and will be funded using cash on hand.

In June 2023, Biolitec AG, based in Vienna, Austria, unveiled two new products from its Elves Radial family of endolaser vein system devices, which are designed for the minimally invasive laser treatment of insufficient veins. This announcement coincided with the 23rd European Venous Forum, held in Berlin, Germany, from June 22-24, 2023. The company launched the Elves Radial 2ring Pro laser fiber and the single-wavelength Leonardo 1940 laser.

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