

Surgical Lasers Market – Global Industry Size, Share, Trends, Opportunity and Forecast, By Type (Carbon-Dioxide Lasers, Argon Lasers, Diode Lasers, Others), By Procedure Type (Open Surgery, Laparoscopic Surgery, Percutaneous Surgery), By Application (Ophthalmology, Dentistry, Dermatology, Cardiology, Gynecology, Others), By End User (Hospitals & Clinics, Ambulatory Care Centers, Others), By Company, By Region and Competition, 2019-2029F

https://marketpublishers.com/r/S77ECDF6383BEN.html

Date: April 2024

Pages: 181

Price: US\$ 4,900.00 (Single User License)

ID: S77ECDF6383BEN

Abstracts

Global Surgical Lasers Market was valued at USD 5.25 Billion in 2023 and is anticipated to project steady growth in the forecast period with a CAGR of 5.25% through 2029. The surgical lasers market encompasses various types of lasers used in surgical procedures, including solid-state lasers, gas lasers, and diode lasers. These lasers are employed across multiple medical specialties such as dermatology, ophthalmology, urology, gynecology, cardiology, and oncology. They offer precise tissue interaction, reduced blood loss, and shorter hospital stays, making them increasingly popular among healthcare providers and patients alike.

The prevalence of chronic diseases such as cancer, cardiovascular disorders, and ophthalmic conditions is on the rise globally. Surgical lasers provide effective treatment options for these ailments, fostering market growth. Continuous advancements in laser technology have led to the development of more sophisticated and precise surgical lasers. This has expanded the scope of laser applications in various medical specialties. Patients are increasingly opting for minimally invasive surgeries due to reduced post-operative pain, shorter recovery times, and minimal scarring. Surgical



lasers play a crucial role in enabling such procedures.

Key Market Drivers

Increasing Prevalence of Chronic Diseases is Driving the Global Surgical Lasers Market

The prevalence of chronic diseases is on the rise globally, driven by factors such as aging populations, sedentary lifestyles, unhealthy dietary habits, and increasing urbanization. Chronic diseases not only impact the quality of life for millions but also pose substantial economic challenges to healthcare systems worldwide. According to the World Health Organization (WHO), chronic diseases are the leading cause of mortality globally, responsible for approximately 71% of all deaths annually. Surgical lasers have gained prominence across various medical specialties due to their precision, efficacy, and ability to minimize trauma to surrounding tissues. These devices use focused light beams to remove, vaporize, or alter tissues during surgical procedures, offering several advantages over traditional surgical techniques. Laser technology is widely employed in procedures such as dermatology, ophthalmology, dentistry, cardiology, oncology, and urology, among others. In dermatology, lasers are used for skin resurfacing, scar removal, and tattoo removal. Ophthalmic lasers are essential for vision correction surgeries like LASIK and the treatment of retinal disorders. In oncology, laser ablation is used for precise tumor removal or destruction. The versatility of surgical lasers and their expanding applications across medical specialties underscore their critical role in modern healthcare.

Shift Towards Minimally Invasive Procedures is Driving the Global Surgical Lasers Market

Minimally invasive surgeries involve smaller incisions compared to traditional open surgeries, leading to reduced trauma, faster recovery times, shorter hospital stays, and fewer complications for patients. These benefits have fueled a growing preference among both patients and healthcare providers for minimally invasive techniques. Surgical lasers play a critical role in enabling these procedures by providing enhanced precision and control during operations. Surgical lasers are versatile tools that can be used in a wide range of medical applications, including dermatology, ophthalmology, dentistry, urology, gynecology, oncology, and cardiovascular surgery. Different types of lasers such as carbon dioxide (CO2), diode, and neodymium-doped yttrium aluminum garnet (Nd: YAG) lasers are employed based on the specific requirements of the procedure.



Patients are increasingly opting for minimally invasive procedures due to benefits such as reduced pain, quicker recovery, and smaller scars. This growing patient preference is driving the adoption of surgical lasers by healthcare providers. Continuous innovations in laser technology have led to the development of more efficient and specialized surgical lasers. These advancements have expanded the range of applications for surgical lasers across various medical specialties. The prevalence of chronic diseases that require surgical interventions, such as cardiovascular diseases, cancer, and ophthalmic disorders, is on the rise globally. Surgical lasers offer effective treatment options for many of these conditions. Governments and healthcare organizations are investing in advanced medical technologies to improve healthcare outcomes and reduce the overall burden on healthcare systems. This investment is expected to drive the adoption of surgical lasers in both developed and developing regions.

Key Market Challenges

Regulatory Hurdles and Compliance

One of the foremost challenges in the global surgical lasers market is navigating stringent regulatory requirements and ensuring compliance with evolving standards across different regions. Regulatory approvals are crucial for market entry and product adoption, but the process can be time-consuming and costly. Adhering to regulatory changes and ensuring product safety and efficacy demands continuous investment in research and development, as well as robust quality control measures.

High Initial Investment and Cost of Equipment

The adoption of surgical lasers requires substantial capital investment due to the high cost of laser systems and associated equipment. This poses a challenge for healthcare facilities, particularly in emerging markets or smaller clinics, where budget constraints may limit the adoption of advanced laser technologies. Additionally, ongoing maintenance costs and the need for specialized training further contribute to the financial burden on healthcare providers.

Key Market Trends

Technological Advancements

In recent years, technological advancements have revolutionized the field of surgery, particularly with the introduction and evolution of surgical lasers. These innovative



devices have significantly transformed various surgical procedures by offering precision, efficiency, and improved patient outcomes. As a result, the global surgical laser market has been experiencing rapid growth, driven by ongoing advancements in laser technology. Modern surgical lasers benefit greatly from advancements in fiber optic technology. Fiber optic delivery systems allow precise and minimally invasive access to target tissues, enabling surgeons to perform complex procedures with enhanced precision and reduced damage to surrounding tissues.

New laser systems offer improved precision and control over tissue ablation, cutting, and coagulation. This level of control is crucial in delicate surgeries where preserving healthy tissue is essential for optimal patient outcomes. Technological advancements have led to the development of lasers that operate across a range of wavelengths. This diversity allows surgeons to choose the most appropriate laser for specific procedures and target tissues, optimizing efficacy and safety. Integration of surgical lasers with advanced imaging technologies, such as MRI and CT scans, enables real-time visualization during procedures. This integration enhances the accuracy of laser targeting and promotes safer surgeries. The integration of lasers with robotic surgical systems allows for highly precise and automated procedures. Robotics enhance the dexterity of surgeons and enable complex maneuvers that would be challenging with traditional surgical techniques.

Segmental Insights

Type Insights

Basedon the category of type, Carbon-Dioxide Lasers emerged as the dominant player in the global market for Surgical Lasers in 2023. Carbon dioxide lasers are known for their precision and effectiveness in surgical procedures. They emit light at a wavelength of around 10,600 nanometers, which is highly absorbed by water in tissues. This property allows CO2 lasers to precisely target and vaporize soft tissue while minimizing damage to surrounding areas. This precision is particularly advantageous in delicate surgeries where tissue preservation is critical.CO2 lasers are versatile and find applications across multiple surgical specialties including dermatology, otolaryngology, gynecology, and dentistry, among others. They are used for procedures such as skin resurfacing, tumor removal, ENT surgeries, and laser-assisted vaginal procedures. The ability of CO2 lasers to perform both incisional and ablative procedures with minimal thermal damage makes them suitable for a wide range of surgical interventions. The interaction of CO2 lasers with tissue results in effective hemostasis (blood vessel sealing), reducing intraoperative bleeding and improving visibility for surgeons. This



capability contributes to faster procedures and enhanced surgical outcomes, especially in procedures requiring precise tissue cutting and coagulation.

Application Insights

The ophthalmology segment is projected to experience rapid growth during the forecast period. Ophthalmic procedures demand an exceptionally high level of precision and safety, which surgical lasers can provide effectively. Laser technology allows for targeted treatment of delicate eye structures with minimal damage to surrounding tissues, reducing the risk of complications and improving patient outcomes. For example, lasers are commonly used in procedures like LASIK (laser-assisted in situ keratomileusis) for vision correction, cataract surgery, and retinal treatments. Surgical lasers offer diverse applications within ophthalmology, catering to a wide range of conditions and procedures. They are utilized in treating refractive errors (like myopia, hyperopia, and astigmatism), removing cataracts, managing glaucoma, performing retinal photocoagulation for diabetic retinopathy, and addressing other ocular diseases. The versatility of laser systems makes them indispensable tools across various subspecialties within ophthalmology.

Regional Insights

North America emerged as the dominant region in the global Surgical Lasers market in 2023, holding the largest market share in terms of value. North America, particularly the United States, is a hub for technological innovation in healthcare. The region has a strong ecosystem of research institutions, medical device companies, and healthcare providers that drive the development and adoption of advanced surgical laser technologies. North America has one of the highest healthcare expenditures globally, with significant investments in advanced medical technologies. This allows healthcare facilities in the region to afford and adopt cutting-edge surgical laser systems, contributing to market growth. The presence of favorable reimbursement policies for surgical procedures involving laser technology in North America encourages healthcare providers to invest in these systems. This reduces the financial burden on patients and facilitates the widespread adoption of surgical lasers in various medical specialties. The rising prevalence of chronic diseases such as cardiovascular disorders, cancer, and ophthalmic conditions in North America necessitates advanced surgical interventions, including those utilizing laser technology. As a result, there is a growing demand for surgical lasers in the region's healthcare infrastructure. North America boasts a welldeveloped healthcare infrastructure with modern hospitals, outpatient surgery centers, and specialized clinics equipped with state-of-the-art medical technologies. This

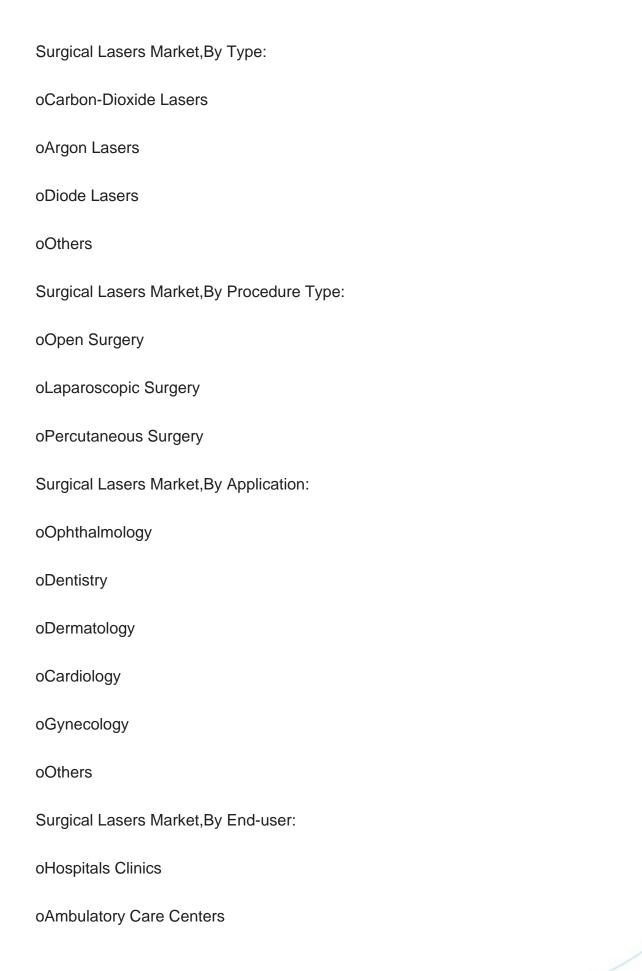


facilitates the adoption of surgical lasers across different healthcare settings, further driving market growth.

Key Market Players
Boston Scientific Corporation
Alcon, Inc.
Johnson Johnson
Cynosure, Inc.
Lumenis Ltd.
Candela Corporation
Cutera, Inc.
Lutronic Corporation
El. En Group
Biolase, Inc.
IPG Photonics Corporation
Alma Lasers Ltd.
Koninklijke Philips N.V.
Bauch Health Companies, Inc.
Carl Zeiss AG
Report Scope:

In this report, the Global Surgical Lasers Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:











oSouth America		
Brazil		
Argentina		
Colombia		
oMiddle East Africa		
South Africa		
Saudi Arabia		
UAE		
Kuwait		
Competitive Landscape		
Company Profiles: Detailed analysis of the major companies present in the Surgical Lasers Market.		
Available Customizations:		
Global Surgical Lasers market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:		
Company Information		
Detailed analysis and profiling of additional market players (up to five).		



Contents

1.PRODUCT OVERVIEW

- 1.1.Market Definition
- 1.2.Scope of the Market
 - 1.2.1.Markets Covered
 - 1.2.2.Years Considered for Study
 - 1.2.3.Key Market Segmentations

2.RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2.Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation Validation
- 2.7. Assumptions and Limitations

3.EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4.VOICE OF CUSTOMER

5.GLOBAL SURGICAL LASERS MARKET OUTLOOK

- 5.1.Market Size Forecast
 - 5.1.1.By Value
- 5.2.Market Share Forecast
 - 5.2.1.By Type (Carbon-Dioxide Lasers, Argon Lasers, Diode Lasers, Others)
- 5.2.2.By Procedure Type (Open Surgery, Laparoscopic Surgery, Percutaneous Surgery)
 - 5.2.3.By Application (Ophthalmology, Dentistry, Dermatology, Cardiology, Gynecology,



Others)

- 5.2.4.By End User (Hospitals Clinics, Ambulatory Care Centers, Others)
- 5.2.5.By Company (2023)
- 5.2.6.By Region
- 5.3.Market Map
 - 5.3.1.By Type
 - 5.3.2.By Procedure Type
 - 5.3.3.By Application
 - 5.3.4.By End User
 - 5.3.5.By Region

6.NORTH AMERICA SURGICAL LASERS MARKET OUTLOOK

- 6.1.Market Size Forecast
 - 6.1.1.By Value
- 6.2. Market Share Forecast
 - 6.2.1.By Type
 - 6.2.2.By Procedure Type
 - 6.2.3.By Application
 - 6.2.4.By End User
 - 6.2.5.By Country
- 6.3. North America: Country Analysis
 - 6.3.1. United States Surgical Lasers Market Outlook
 - 6.3.1.1.Market Size Forecast
 - 6.3.1.1.1.By Value
 - 6.3.1.2.Market Share Forecast
 - 6.3.1.2.1.By Type
 - 6.3.1.2.2.By Procedure Type
 - 6.3.1.2.3.By Application
 - 6.3.1.2.4.By End User
 - 6.3.2. Canada Surgical Lasers Market Outlook
 - 6.3.2.1.Market Size Forecast
 - 6.3.2.1.1.By Value
 - 6.3.2.2.Market Share Forecast
 - 6.3.2.2.1.By Type
 - 6.3.2.2.By Procedure Type
 - 6.3.2.2.3.By Application
 - 6.3.2.2.4.By End User
 - 6.3.3.Mexico Surgical Lasers Market Outlook



6.3.3.1.Market Size Forecast

6.3.3.1.1.By Value

6.3.3.2.Market Share Forecast

6.3.3.2.1.By Type

6.3.3.2.2.By Procedure Type

6.3.3.2.3.By Application

6.3.3.2.4.By End User

7.EUROPE SURGICAL LASERS MARKET OUTLOOK

7.1.Market Size Forecast

7.1.1.By Value

7.2. Market Share Forecast

7.2.1.By Type

7.2.2.By Procedure Type

7.2.3.By Application

7.2.4.By End User

7.2.5.By Country

7.3. Europe: Country Analysis

7.3.1.France Surgical Lasers Market Outlook

7.3.1.1.Market Size Forecast

7.3.1.1.1.By Value

7.3.1.2.Market Share Forecast

7.3.1.2.1.By Type

7.3.1.2.2.By Procedure Type

7.3.1.2.3.By Application

7.3.1.2.4.By End User

7.3.2.Germany Surgical Lasers Market Outlook

7.3.2.1.Market Size Forecast

7.3.2.1.1.By Value

7.3.2.2.Market Share Forecast

7.3.2.2.1.By Type

7.3.2.2.By Procedure Type

7.3.2.2.3.By Application

7.3.2.2.4.By End User

7.3.3. United Kingdom Surgical Lasers Market Outlook

7.3.3.1.Market Size Forecast

7.3.3.1.1.By Value

7.3.3.2.Market Share Forecast



- 7.3.3.2.1.By Type
- 7.3.3.2.2.By Procedure Type
- 7.3.3.2.3.By Application
- 7.3.3.2.4.By End User
- 7.3.4.Italy Surgical Lasers Market Outlook
 - 7.3.4.1.Market Size Forecast
 - 7.3.4.1.1.By Value
 - 7.3.4.2.Market Share Forecast
 - 7.3.4.2.1.By Type
 - 7.3.4.2.2.By Procedure Type
 - 7.3.4.2.3.By Application
 - 7.3.4.2.4.By End User
- 7.3.5. Spain Surgical Lasers Market Outlook
 - 7.3.5.1.Market Size Forecast
 - 7.3.5.1.1.By Value
 - 7.3.5.2.Market Share Forecast
 - 7.3.5.2.1.By Type
 - 7.3.5.2.2.By Procedure Type
 - 7.3.5.2.3.By Application
 - 7.3.5.2.4.By End User

8.ASIA-PACIFIC SURGICAL LASERS MARKET OUTLOOK

- 8.1.Market Size Forecast
 - 8.1.1.By Value
- 8.2.Market Share Forecast
 - 8.2.1.By Type
 - 8.2.2.By Procedure Type
 - 8.2.3.By Application
 - 8.2.4.By End User
 - 8.2.5.By Country
- 8.3. Asia-Pacific: Country Analysis
 - 8.3.1.China Surgical Lasers Market Outlook
 - 8.3.1.1.Market Size Forecast
 - 8.3.1.1.1.By Value
 - 8.3.1.2.Market Share Forecast
 - 8.3.1.2.1.By Type
 - 8.3.1.2.2.By Procedure Type
 - 8.3.1.2.3.By Application



- 8.3.1.2.4.By End User
- 8.3.2. Japan Surgical Lasers Market Outlook
 - 8.3.2.1.Market Size Forecast
 - 8.3.2.1.1.By Value
 - 8.3.2.2.Market Share Forecast
 - 8.3.2.2.1.By Type
 - 8.3.2.2.2.By Procedure Type
 - 8.3.2.2.3.By Application
 - 8.3.2.2.4.By End User
- 8.3.3.India Surgical Lasers Market Outlook
 - 8.3.3.1.Market Size Forecast
 - 8.3.3.1.1.By Value
 - 8.3.3.2.Market Share Forecast
 - 8.3.3.2.1.By Type
 - 8.3.3.2.2.By Procedure Type
 - 8.3.3.2.3.By Application
 - 8.3.3.2.4.By End User
- 8.3.4. South Korea Surgical Lasers Market Outlook
 - 8.3.4.1.Market Size Forecast
 - 8.3.4.1.1.By Value
 - 8.3.4.2.Market Share Forecast
 - 8.3.4.2.1.By Type
 - 8.3.4.2.2.By Procedure Type
 - 8.3.4.2.3.By Application
 - 8.3.4.2.4.By End User
- 8.3.5. Australia Surgical Lasers Market Outlook
 - 8.3.5.1.Market Size Forecast
 - 8.3.5.1.1.By Value
 - 8.3.5.2. Market Share Forecast
 - 8.3.5.2.1.By Type
 - 8.3.5.2.2.By Procedure Type
 - 8.3.5.2.3.By Application
 - 8.3.5.2.4.By End User

9. SOUTH AMERICA SURGICAL LASERS MARKET OUTLOOK

- 9.1.Market Size Forecast
 - 9.1.1.By Value
- 9.2. Market Share Forecast



- 9.2.1.By Type
- 9.2.2.By Procedure Type
- 9.2.3.By Application
- 9.2.4.By End User
- 9.2.5.By Country
- 9.3. South America: Country Analysis
 - 9.3.1.Brazil Surgical Lasers Market Outlook
 - 9.3.1.1.Market Size Forecast
 - 9.3.1.1.1.By Value
 - 9.3.1.2.Market Share Forecast
 - 9.3.1.2.1.By Type
 - 9.3.1.2.2.By Procedure Type
 - 9.3.1.2.3.By Application
 - 9.3.1.2.4.By End User
 - 9.3.2. Argentina Surgical Lasers Market Outlook
 - 9.3.2.1.Market Size Forecast
 - 9.3.2.1.1.By Value
 - 9.3.2.2.Market Share Forecast
 - 9.3.2.2.1.By Type
 - 9.3.2.2.By Procedure Type
 - 9.3.2.2.3.By Application
 - 9.3.2.2.4.By End User
 - 9.3.3.Colombia Surgical Lasers Market Outlook
 - 9.3.3.1.Market Size Forecast
 - 9.3.3.1.1.By Value
 - 9.3.3.2.Market Share Forecast
 - 9.3.3.2.1.By Type
 - 9.3.3.2.2.By Procedure Type
 - 9.3.3.2.3.By Application
 - 9.3.3.2.4.By End User

10.MIDDLE EAST AND AFRICA SURGICAL LASERS MARKET OUTLOOK

- 10.1.Market Size Forecast
 - 10.1.1.By Value
- 10.2.Market Share Forecast
 - 10.2.1.By Type
 - 10.2.2.By Procedure Type
 - 10.2.3.By Application



10.2.4.By End User

10.2.5.By Country

10.3.MEA: Country Analysis

10.3.1. South Africa Surgical Lasers Market Outlook

10.3.1.1.Market Size Forecast

10.3.1.1.1.By Value

10.3.1.2.Market Share Forecast

10.3.1.2.1.By Type

10.3.1.2.2.By Procedure Type

10.3.1.2.3.By Application

10.3.1.2.4.By End User

10.3.2. Saudi Arabia Surgical Lasers Market Outlook

10.3.2.1.Market Size Forecast

10.3.2.1.1.By Value

10.3.2.2.Market Share Forecast

10.3.2.2.1.By Type

10.3.2.2.2.By Procedure Type

10.3.2.2.3.By Application

10.3.2.2.4.By End User

10.3.3.UAE Surgical Lasers Market Outlook

10.3.3.1.Market Size Forecast

10.3.3.1.1.By Value

10.3.3.2.Market Share Forecast

10.3.3.2.1.By Type

10.3.3.2.2.By Procedure Type

10.3.3.2.3.By Application

10.3.3.2.4.By End User

10.3.4. Kuwait Surgical Lasers Market Outlook

10.3.4.1.Market Size Forecast

10.3.4.1.1.By Value

10.3.4.2.Market Share Forecast

10.3.4.2.1.By Type

10.3.4.2.2.By Procedure Type

10.3.4.2.3.By Application

10.3.4.2.4.By End User

11.MARKET DYNAMICS

11.1.Drivers



11.2.Challenges

12.MARKET TRENDS DEVELOPMENTS

- 12.1.Recent Development
- 12.2. Mergers Acquisitions
- 12.3.Product Launches

13.GLOBAL SURGICAL LASERS MARKET: SWOT ANALYSIS

14.PORTER'S FIVE FORCES ANALYSIS

- 14.1.Competition in the Industry
- 14.2.Potential of New Entrants
- 14.3. Power of Suppliers
- 14.4. Power of Customers
- 14.5. Threat of Substitute Products

15.COMPETITIVE LANDSCAPE

- 15.1.Boston Scientific Corporation
 - 15.1.1. Business Overview
 - 15.1.2.Company Snapshot
 - 15.1.3. Products Services
 - 15.1.4. Financials (As Reported)
 - 15.1.5.Recent Developments
 - 15.1.6. Key Personnel Details
 - 15.1.7.SWOT Analysis
- 15.2.Alcon, Inc.
- 15.3.Johnson Johnson
- 15.4. Cynosure, Inc.
- 15.5.Lumenis Ltd.
- 15.6.Candela Corporation
- 15.7.Cutera, Inc.
- 15.8.Lutronic Corporation
- 15.9.El. En Group
- 15.10.Biolase, Inc.
- 15.11.IPG Photonics Corporation
- 15.12.Alma Lasers Ltd.



- 15.13.Koninklijke Philips N.V.
- 15.14.Bauch Health Companies, Inc.
- 15.15.Carl Zeiss AG

16.STRATEGIC RECOMMENDATIONS

17.ABOUT US DISCLAIMER



I would like to order

Product name: Surgical Lasers Market - Global Industry Size, Share, Trends, Opportunity and Forecast,

By Type (Carbon-Dioxide Lasers, Argon Lasers, Diode Lasers, Others), By Procedure Type (Open Surgery, Laparoscopic Surgery, Percutaneous Surgery), By Application (Ophthalmology, Dentistry, Dermatology, Cardiology, Gynecology, Others), By End User (Hospitals & Clinics, Ambulatory Care Centers, Others), By Company, By Region and

Competition, 2019-2029F

Product link: https://marketpublishers.com/r/S77ECDF6383BEN.html

Price: US\$ 4,900.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

Payment

First name:

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/S77ECDF6383BEN.html

To pay by Wire Transfer, please, fill in your contact details in the form below:

Last name:	
Email:	
Company:	
Address:	
City:	
Zip code:	
Country:	
Tel:	
Fax:	
Your message:	
	**All fields are required
	Custumer signature

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms



& Conditions at https://marketpublishers.com/docs/terms.html

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970