

Global High Energy Lasers Market Size study, by Application(Cutting, Welding & Drilling, Military and Defense, Communications, Other Applications), and Regional Forecasts 2020-2027

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Abstracts

Global High Energy Lasers Market is valued at approximately USD 7.43 billion in 2020 and is anticipated to grow with a healthy growth rate of more than 12.43 % over the forecast period 2021-2027. High-energy lasers are employed in a variety of industries, including defence, industrial, and medical applications. Military lasers, such as gas, solid-state, and excimer lasers, are employed in vital industries including material processing and automotive. These are now playing an increasingly essential part in the development of a variety of novel processes, such as guiding munitions and marking targets, missile defence systems, laser lightning displays, communication, and surgical and diagnostic functions. Laser weapon systems are in high demand in the navy around the world in order to combat airborne threats like missiles and drones. Lasers have shown to be effective against missiles and are now being used as a first line of defence. For example, Lockheed Martin's HELIOS (High Energy Laser with Integrated Optical-dazzler and Surveillance) is set to be permanently installed onboard a flight IIA DDG ArleighBurke destroyer in 2021. The Laser has been officially incorporated into the Aegis Combat System by the US Navy. Apart from that, laser-based weapons are being tested on navy warships for the purpose of destroying drones. For example, during a test of a new high-energy laser weapon system in May 2020, the USS Portland successfully crippled an uncrewed aerial vehicle. The technology was designed by Northrop Grumman, and it was tested following the incident with the Chinese vessel, in which a weapons-grade laser was fired by a US Navy P-8A Poseidon patrol aircraft. Aside from the United States, a number of other countries are working to improve their naval capabilities in order to prevent and disable threats. China is one among the countries set to compete with the US for supremacy in this sector. However, restrictions

on anti-personnel lasers may impede market growth over the forecast period of 2020-2027.

The regional analysis of the global High Energy Lasers Market is considered for the key regions such as Asia Pacific, North America, Europe, Latin America, and Rest of the World. North America is the leading region across the world in terms of market share due to rising investments for research and development in the region. Whereas Asia Pacific is also anticipated to exhibit the highest growth rate over the forecast period 2021-2027, due technological advancements made by China, India, and Japan.

Major market player included in this report are:

TRUMPF Pvt. Ltd.

IPG Photonics

Coherent, Inc

nLight, Inc

Bae Systems Plc

Alltec GmbH

Lockheed Martin Corporation

Applied Companies Inc.

The Boeing Company

Lumentum Holdings

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report shall also incorporate available opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By end user:

Cutting, Welding & Drilling

Military and Defense

Communications

Other Applications

By Region:

North America

U.S.
Canada
Europe
UK
Germany
France
Spain
Italy
ROE

Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC
Latin America
Brazil
Mexico
Rest of the World

Furthermore, years considered for the study are as follows:

Historical year – 2017, 2018
Base year – 2019
Forecast period – 2020 to 2027.

Target Audience of the Global High Energy Lasers Market in Market Study:

Key Consulting Companies & Advisors
Large, medium-sized, and small enterprises
Venture capitalists
Value-Added Resellers (VARs)
Third-party knowledge providers
Investment bankers
Investors

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