

Laser Technologies, Components & Applications Market Global Forecast & Analysis (2012 - 2017) by Types & by Applications

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Abstracts

Laser Technologies, Components & Applications Market – Global Forecast & Analysis (2012 – 2017)

Laser Technologies, Components & Applications Market – Global Forecast & Analysis (2012 – 2017) By Types (Fiber Laser, CO2 Laser, Solid State Laser, Excimer Laser, Dye Laser, Diode Laser) & By Applications (Cutting & Welding, Marking & Engraving, Semiconductor & Micro Processing, Automotive Industry, Communication, Excimer Lithography, Data Storage, Medical, Defense, Instrumentation & Sensors, Pumps & Image Recording)

“Laser” stands for light amplification by stimulated emission of radiation. In the early technical literature, especially at Bell Telephone Laboratories, the laser was called an optical maser; this term is now obsolete. A laser which produces light by itself is technically an optical oscillator rather than an optical amplifier as suggested by the acronym. It has been humorously noted that the acronym LOSER, for "light oscillation by stimulated emission of radiation", would have been more correct. With the widespread use of the original acronym as a common noun, actual optical amplifiers have come to be referred to as "laser amplifiers", notwithstanding the apparent redundancy in that designation.

Most of the mainstream laser categories were developed five decades ago but the commercialization started with CO2 lasers being used in most of the industrial applications. The new lasers like femtosecond and disc lasers operate on the conventional principles, but compete with previous forms of lasers in output power and efficiency. In spite of being very technical in terms of installation and usage, lasers

continue to be part of cutting edge high end devices across verticals.

The report provides an exhaustive analysis of markets for all the types of lasers, such as fiber lasers, CO2 lasers, solid-state lasers, diode lasers, dye lasers, and excimer lasers. It includes detailed analysis of application segments and geographical split across the globe. The report's strategic section sketches the competitive scenario in the laser market. The prominent players in different segments of the laser technology market were recognized through secondary research and their market revenue was determined through primary and secondary research. The size of the overall market was derived by forecasting techniques based on the top-down and bottom-up approach, the study of the application areas, and the trend for various geographical regions.

Scope of the report

The Laser Technologies Market research report categorizes the global laser market on the basis of them being used in different products and exhaustive applications that includes industrial and consumer applications, and geographical analysis; forecasting revenue, market modeling, and evaluating trends in the market.

On the basis of product type

The laser type market is segmented into six categories; namely: CO2 lasers, fiber lasers, solid-state lasers, diode lasers, dye lasers, and excimer lasers. The disc laser offers some unique properties that are particularly interesting for certain c-Si (Crime scene investigation) applications. As compared to a rod, a disc laser offers significantly higher beam quality, i.e. much higher average power of best beam quality.

Compared to bulk lasers, fiber lasers feature higher wall-plug efficiency, rugged and compact design, and nearly maintenance-free operation. Fiber lasers are appropriate for generating high average powers with good beam quality. On the other hand, due to nonlinearities, there is a lower potential for high pulse energies and peak powers.

On the basis of application

The application market is segmented into industrial applications, medical applications, military, and commercial applications. The industrial applications are further classified into marking & engraving, cutting & welding, semiconductor & micro processing and automotive industry. The other applications include instrumentation & sensors, pumps, medical, excimer lithography, science and defence, communications and consumer

electronics. The market trends and future projections for these applications are discussed comprehensively. Communication and industrial applications like material processing give the maximum contribution to the laser industry. Among these, cutting & welding form a base for the majority of the laser applications.

On the basis of geography

North America

Europe

APAC

ROW

Each section will provide market data, market drivers, trends and opportunities, key players, and competitive outlook. It will also provide market tables for covering the sub-segments and micro-markets. In addition, the report provides 17 company profiles covering all the sub-segments.

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About

Laser systems prove to be a core enabling technology for a gamut of applications. There is a wide variation in the form of lasers; from the very low power lasers used in bar code scanning to the very high power used in cutting and welding and the lot includes all types of lasers encompassing diode and non-diode systems. Lasers are available in various formats with different properties dependent on a broad range of technologies, thereby making them heterogeneous. Also, the applications equally vary from systems for manufacturing (e.g. welding and marking), lasers for surgery, lasers in defense (e.g. ranging and weaponry) and lasers used in scientific research and development.

Since the adoption of working lasers in the year 1960, there has been a rapid progress in the development of these devices; today it is commonly used in everyday life such as CD players, barcode scanners, etc. The rise in the adoption of lasers in different products and application will improve the performance and power level shared with rapidly falling manufacturing costs.

CO2 laser, solid-state laser, and fiber laser are the most prominent lasers available in the market; in the overall market for lasers, CO2 laser contributes the major market share. CO2 lasers are basically used for industrial applications like cutting and welding; whereas fiber lasers are mostly used for marking and engraving. CO2 lasers are not suitable for marking uncoated metals directly without special optics. This application is catered to by fiber laser. CO2 lasers are more suitable for cutting and marking organic material like wood and plastic.

The most prospective market for laser in new applications is medical and consumer electronics. Laser surgery for skin treatment such as removing wrinkles, sunspots, tattoos or birthmarks are on hype. In medical application, solid-state lasers and CO2 lasers are more prominently preferred. CO2 lasers are considered to be a vital surgical tool, which cuts or vaporizes tissue with fairly little bleeding as the light energy converts to heat. It is used to extract thin layers from the surface of the skin without going into the deeper layers.

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