

Global Direct Laser Writing System Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Direct Laser Writing System market size was valued at US\$ 4049 million in 2023 and is forecast to a readjusted size of USD 6853 million by 2030 with a CAGR of 7.8% during review period.

Direct Laser Writing (DLW) uses laser beam to create a controlled localized damage on the surface. The pattern is drawn in CAD program, which then is etched on the surface of material by a laser spot. In a typical setting, the laser spot is fixed, while the sample is moved under the beam. To prevent overwriting, the beam is switched off with shutters. DLW has been increasingly selected as a microfabrication route for efficient, cost-effective, high-resolution material synthesis and conversion. Concurrently, lasers participate in the patterning and assembly of functional geometries in several fields of application, of which electronics stand out.

Laser direct writing technology is a kind of micro/nano processing method with no mask, wide application range and high cost performance ratio. At present, it has been widely used in micro/nano manufacturing fields such as MEMS, mask, Microfluidics, micro/nano optical devices, Metamaterial, etc. In the field of advanced IC packaging, mask lithography technology is the mainstream technology applied in the industry. However, due to the limitations of mask lithography in alignment flexibility, large-scale packaging, and automatic coding, pan semiconductor equipment manufacturers have applied laser direct writing lithography technology to advanced packaging fields such as wafer level packaging in recent years. Laser direct writing equipment is a high-tech product with wide application and market potential. In the future, with the continuous innovation of technology and the continuous expansion of the market, its development prospects will be even broader. There exist two challenges in traditional DLW for a considerable period. The first one is how to increase fabrication resolution of DLW to

nanoscale in order to cater to the need of nanofabrication. Another one refers to make DLW applicable to various acceptor materials (resists) rather than only organic photoresist. Due to limitation of diffraction limit in an optical system, the traditional DLW developed along the existing technology trajectory is hard to overcome the difficulties mentioned above. For resolving this, developing new type of DLW with more powerful function become necessary and urgent. The new generation laser direct writing (New-Ge DLW) successfully overcomes shortcomings of the existing DLW and furnishes a variety of new opportunities to explore novel fabrication technologies and methods. It should be stressed that here the New-Ge DLW refers to traditional DLW based on a new principle of laser-matter non-linear interaction, not including femtosecond DLW (FsDLW) that has formed a single branch owing to its high-speed development and enormous difference in features from the traditional DLW. The expanded capability of lasers to participate in multiple fabrication steps at different implementation levels, from material engineering to device processing, indicates their future applicability to next-generation electronics, where more accessible, green microfabrication approaches integrate lasers as comprehensive tools.

This report is a detailed and comprehensive analysis for global Direct Laser Writing System market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2024, are provided.

Key Features:

Global Direct Laser Writing System market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (USD/Unit), 2019-2030

Global Direct Laser Writing System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (USD/Unit), 2019-2030

Global Direct Laser Writing System market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (USD/Unit), 2019-2030

Global Direct Laser Writing System market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (USD/Unit), 2019-2024

The Primary Objectives in This Report Are:

Global Direct Laser Writing System Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 20...

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Direct Laser Writing System

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Direct Laser Writing System market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Heidelberg Instruments, Raith(4PICO Litho), Mycronic, Ushio Inc., SCREEN Holdings, Durham Magneto Optics, Nanoscribe GmbH & Co, Visitech, EV Group, miDALIX, etc.

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

Market Segmentation

Direct Laser Writing System market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- 2D
- 3D

Market segment by Application

- Mask Plate Manufacturing
- IC Packaging
- FPD Manufacturing
- Microelectromechanical
- Other

Major players covered

- Heidelberg Instruments
- Raith(4PICO Litho)
- Mycronic
- Ushio Inc.
- SCREEN Holdings
- Durham Magneto Optics

- Nanoscribe GmbH & Co
- Visitech
- EV Group
- miDALIX
- Microlight3D
- Kloe
- Circuit Fabology Microelectronics Equipment
- Jiangsu Yingsu Integrated Circuit Equipment
- Moji-Nano Technology
- SVG Tech
- TuoTuo Technology
- Wuxi Lithography Electronics
- Suzhou ETools Optoelectronic Technology
- AdvanTools Semiconductor
- Aiscent Technologies Ltd
- Microtech
- LUBON Technology
- Holmarc Opto-Mechatronics Ltd
- SPS-International

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Direct Laser Writing System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Direct Laser Writing System, with price, sales quantity, revenue, and global market share of Direct Laser Writing System from 2019 to 2024.

Chapter 3, the Direct Laser Writing System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Direct Laser Writing System breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2019 to 2024. and Direct Laser Writing System market forecast, by regions, by Type, and by Application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Direct Laser Writing System.

Chapter 14 and 15, to describe Direct Laser Writing System sales channel, distributors, customers, research findings and conclusion.

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