

Global (North America, Europe, Asia-Pacific, South America, Middle East and Africa) Ultrafast Lasers Market 2018, Forecast to 2023

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Abstracts

The Ultrafast lasers are increasingly used to perform micro-structuring in the automotive industry. One such technique is making an array of small pits on the surface of a part. These small pits hold oil because of the surface tension and prevent direct metal-to-metal contact, thus significantly reducing the friction between the moving parts. These ultrafast lasers are most useful for micro-structuring on parts that have an intricate shape, as it can be used to rapidly process even the most complex surface geometries. One example of this kind of micro-structuring is turbocharger turbine wheel shafts. These parts are subjected to large forces and rotate at high speeds. In order to reduce the friction, increase operating efficiency, and improve product life, ultrafast lasers can be used to produce small pits of size around 40-100 μm in length and 10-20 μm in width on the shafts.

Scope of the Report:

This report focuses on the Ultrafast Lasers in global market, especially in North America, Europe and Asia-Pacific, South America, Middle East and Africa. This report categorizes the market based on manufacturers, regions, type and application. The worldwide market for Ultrafast Lasers is expected to grow at a CAGR of roughly 13.0% over the next five years, will reach 1940 million US\$ in 2023, from 930 million US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

Coherent

Trumpf

IPG Photonics

Lumentum

Newport

Laser Quantum

IMRA America

NKT Photonics

Clark-MXR

Amplitude Laser Group

EKSPLA

Huaray Precision Laser

Market Segment by Regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia and Italy)

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

South America (Brazil, Argentina, Colombia etc.)

Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)

Market Segment by Type, covers

Titanium-sapphire lasers

Diode-pumped lasers

Fiber lasers

Mode-locked diode lasers

Others

Market Segment by Applications, can be divided into

Biomedical

Materials processing

Spectroscopy and imaging

Science and research

Others

There are 15 Chapters to deeply display the global Ultrafast Lasers market.

Chapter 1, to describe Ultrafast Lasers Introduction, product scope, market overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of Ultrafast Lasers, with sales, revenue, and price of Ultrafast Lasers, in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the global market by regions, with sales, revenue and market share of Ultrafast Lasers, for each region, from 2013 to 2018;

Chapter 5, 6, 7, 8 and 9, to analyze the market by countries, by type, by application and by manufacturers, with sales, revenue and market share by key countries in these regions;

Chapter 10 and 11, to show the market by type and application, with sales market share and growth rate by type, application, from 2013 to 2018;

Chapter 12, Ultrafast Lasers market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

Chapter 13, 14 and 15, to describe Ultrafast Lasers sales channel, distributors, traders, dealers, Research Findings and Conclusion, appendix and data source

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