

# **Global Laser Welding System Market Size study & Forecast, by Laser Type (Gas Laser (CO2), Solid-State, Fiber, Others), by Power (Less than 1kW, More than 1.1 kW), by Application (Automotive, Electronics, Aerospace, Others) and Regional Analysis, 2023-2030**

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## **Abstracts**

Global Laser Welding System Market is valued at approximately USD 3.31 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 6.90% during the forecast period 2023-2030. Laser Welding System is a technology that utilizes laser beams to join materials together through the process of welding. In laser welding, the intense, focused beam of a laser is used to melt and fuse the materials, creating a strong and precise bond. The laser beam provides concentrated heat, allowing for a narrow and controlled welding area. Various types of lasers, such as fiber lasers, CO2 lasers, and solid-state lasers, can be used in laser welding systems. Moreover, the growing demand in automotive manufacturing, rise in adoption in the aerospace industry, rise in automation and industry 4.0, and growing demand in precision and quality of welds that anticipated to create a lucrative demand for the market during the forecast period 2023-2030.

Additionally, the automotive industry is a major contributor to the demand for laser welding systems. The technology is widely used for joining components in the automotive manufacturing process, including body parts, chassis components, and exhaust systems. Thus, the growing automotive manufacturing is anticipated to support the market growth. According to Statista, in 2020 the U.S. motor vehicles and parts manufacturing generated a gross output of USD 644.2 billion and in 2022 the number reached USD 863 billion. As a result, the growing vehicles and parts manufacturing is anticipated to create a lucrative demand for the market. Moreover, the technological advancements in fiber laser systems and growing demand for lightweight materials are

anticipated to create lucrative opportunities for the market. However, the high initial cost stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Laser Welding System Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the growing manufacturing industries, such as automotive, aerospace, and electronics, ongoing advancements in laser welding technology, the presence of key market players, and increasing adoption in the automotive sector. Whereas, the Asia Pacific is expected to grow with the fastest growth rate over the forecast period, owing to factors such as the growing expansion of the automotive industry, rising investments in the aerospace sector, growing infrastructure development, and supportive government initiatives and policies.

Major market player included in this report are:

ALPHA Laser GmbH

LaserStar Technologies Corporation

Amada Co., Ltd.

Panasonic Corporation

Coherent Corp.

Hans Laser Technology Industry Group, Co. LTD.

Foshan Huibaisheng Laser Technology Co., Ltd

IRE-Polus Group

TRUMPF Group

Jenoptik AG

Recent Developments in the Market:

In September 2023, TRUMPF inaugurated a new regional headquarters in Hungary, marking its expansion into Southeast Europe. The lasers

manufactured by TRUMPF are integral components in the production facilities of Korean car battery manufacturers operating in Hungary, catering to the European market.

#### Global Laser Welding System Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Laser Type, Power, Application, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope\*

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 years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential 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 Laser Type:

Gas Laser (CO2)

Solid-State

Fiber

Others

By Power:

Less than 1kW

More than 1.1 kW

By Application:

Automotive

Electronics

Aerospace

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

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