

Global Laser Weakening Machine Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Laser Weakening Machine market size was valued at US\$ 282 million in 2024 and is forecast to a readjusted size of USD 366 million by 2031 with a CAGR of 3.8% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Laser weakening machine is a precision processing equipment designed based on the principle of interaction between high-energy laser beam and material. Its core function is to control the laser parameters (such as power density, pulse width, wavelength and beam mode) to input controllable energy to the surface or inside of the target material to achieve non-contact modification of the local microstructure of the material. Its technical principles usually involve physical processes such as multiphoton absorption, thermally induced phase change or plasma-induced damage. By precisely controlling the laser energy density to fluctuate near the material damage threshold, the material forms microcracks, pores or stress concentration areas while maintaining macroscopic integrity, thereby reducing the mechanical strength of the material or changing its optical/electrical properties. This equipment is widely used in the fields of safety glass manufacturing (such as emergency shattering of automobile windshields), brittleness control of electronic packaging materials, gradient weakening of biomedical stents, etc. Its core advantage lies in the realization of weakening path design with submillimeter spatial resolution, while avoiding surface damage or residual stress introduced by mechanical processing.

This report is a detailed and comprehensive analysis for global Laser Weakening Machine 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 2025, are provided.

Key Features:

Global Laser Weakening Machine market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Laser Weakening Machine market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Laser Weakening Machine market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Laser Weakening Machine market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

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

To assess the growth potential for Laser Weakening Machine

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 Laser Weakening Machine 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 BLM Group, TRUMPF, MAZAK,

BYSTRONIC, Jenoptik, Wuhan Huagong Laser Engineering, Guangdong Han's Yueming Laser Group, Guangdong Xinquanli Laser Intelligent Equipment, Haimuxing (Jiangmen) Laser, etc.

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

Market Segmentation

Laser Weakening Machine market is split by Type and by Application. For the period 2020-2031, 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

Penetration

Non-penetration

Market segment by Application

Automobile Manufacturing

Aerospace

Health Care

Other

Major players covered

BLM Group

TRUMPF

MAZAK

BYSTRONIC

Jenoptik

Wuhan Huagong Laser Engineering

Guangdong Han's Yueming Laser Group

Guangdong Xinquanli Laser Intelligent Equipment

Haimuxing (Jiangmen) Laser

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 Laser Weakening Machine product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Laser Weakening Machine, with price, sales quantity, revenue, and global market share of Laser Weakening Machine from 2020 to 2025.

Chapter 3, the Laser Weakening Machine competitive situation, sales quantity, revenue,

and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Laser Weakening Machine breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Laser Weakening Machine market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Laser Weakening Machine.

Chapter 14 and 15, to describe Laser Weakening Machine sales channel, distributors, customers, research findings and conclusion.

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