

Global Photonic Debonder 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 Photonic Debonder market size was valued at US\$ 79.2 million in 2024 and is forecast to a readjusted size of USD 111 million by 2031 with a CAGR of 5.0% during review period.

A photonic debonder is a high-precision equipment that utilizes pulsed broadband light sources and inorganic metal release layers to achieve the temporary separation of bonded wafers, specifically designed for handling wafer-thin devices with a thickness of 20 micrometers or less. This equipment employs high-intensity light pulses to break the material interface bonds, tolerating minor bowing/warping of the bonded pairs without causing damage to the devices. It offers high cost-performance and low ownership costs, providing rapid production rates and a residue-free debonding process suitable for both standard and warped wafers, which enhances production efficiency and optimizes the workflow. ERS electronic has launched two new models in the Luminex series of fully automatic photonic debonders, the LUM300A1 and LUM300A2, with the LUM300A1 offering a mass production solution for the debonding process, and the LUM300A2 adding a wafer cleaning module to the base model. Both are designed for 300mm substrates and feature ERS's latest photonic debonding technology, with an anticipated release of a semi-automatic version, the LUM600S1, for wafers and panels up to a maximum size of 600 x 600 mm in March 2024. PulseForge Inc has introduced the PD300 SA Photonic Debonding Tool, a semi-automatic photonic debonder suitable for wafer and panel-level packaging.

This report is a detailed and comprehensive analysis for global Photonic Debonder 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 Photonic Debonder market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Photonic Debonder 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 Photonic Debonder 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 Photonic Debonder 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 Photonic Debonder

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 Photonic Debonder 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 ERS Electronic, PulseForge, etc.

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

Market Segmentation

Photonic Debonder 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

Semi Automatic

Fully Automatic

Market segment by Application

WLP

PLP

Major players covered

ERS Electronic

PulseForge

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 Photonic Debonder product scope, market overview, market estimation caveats and base year.

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

Chapter 3, the Photonic Debonder competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Photonic Debonder 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 Photonic Debonder 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 Photonic Debonder.

Chapter 14 and 15, to describe Photonic Debonder sales channel, distributors, customers, research findings and conclusion.

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