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Global Semiconductor Laser Scribe Machine Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

A Semiconductor Laser Scribe Machine is a vital tool used in the process of singulating, or separating, individual die (integrated circuits) from a larger silicon wafer during integrated circuit (IC) manufacturing.

According to our (Global Info Research) latest study, the global Semiconductor Laser Scribe Machine market size was valued at US$ 578 million in 2023 and is forecast to a readjusted size of USD 837 million by 2030 with a CAGR of 6.7% during review period.

The Semiconductor Laser Scribe Machine market is experiencing significant growth, driven by several key factors:

1. Rising Demand for Integrated Circuits (ICs):

The ever-increasing demand for electronic devices like smartphones, laptops, and Internet-of-Things (IoT) gadgets translates directly to a growing need for ICs.

As chip complexity increases, more die (individual circuits) are placed on each wafer. Laser scribing becomes crucial for efficiently separating these die from the larger wafer.

2. Miniaturization and Advanced Packaging:

The trend towards smaller and more powerful ICs necessitates precise singulation techniques like laser scribing.

Advanced packaging technologies, like Fan-Out Wafer-Level Packaging (FOWLP) and

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Package-on-Package (PoP), involve stacking multiple die. Laser scribing offers the necessary control and flexibility for singulation in these scenarios.

3. Advantages of Laser Scribing over Dicing:

Compared to traditional dicing (sawing), laser scribing offers several advantages:

Higher Precision: Laser beams create cleaner and more precise scribes with minimal material damage.

Reduced Heat-Affected Zone (HAZ): Minimized heat generation protects sensitive circuitry within the die.

Flexibility: Adaptable to various wafer sizes and die shapes

This report is a detailed and comprehensive analysis for global Semiconductor Laser Scribe 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 2024, are provided.

Key Features:

Global Semiconductor Laser Scribe Machine market size and forecasts, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2019-2030

Global Semiconductor Laser Scribe Machine market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2019-2030

Global Semiconductor Laser Scribe Machine market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2019-2030

Global Semiconductor Laser Scribe Machine market shares of main players, shipments in revenue ($ Million), sales quantity (Units), and ASP (US$/Unit), 2019-2024

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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 Semiconductor Laser Scribe 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 Semiconductor Laser Scribe 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 Tokyo Seimitsu Group, TomoSemi, JPT Opto-electronics Co., Ltd, HGTECH, Coherent, Inc., Han's Laser Technology Industry Group Co., Ltd., TRUMPF Group, Rofin-Sinar Technologies, Inc., Lumentum Operations LLC, Amada Miyachi Corporation, etc.

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

Market Segmentation

Semiconductor Laser Scribe Machine 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

Automatic Machine

Semi-Automatic Machine

Market segment by Application

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Wafer Less than 6inch

6-12 inch Wafer

Wafer More than 12inch

Major players covered

Tokyo Seimitsu Group

TomoSemi

JPT Opto-electronics Co., Ltd

HGTECH

Coherent, Inc.

Han's Laser Technology Industry Group Co., Ltd.

TRUMPF Group

Rofin-Sinar Technologies, Inc.

Lumentum Operations LLC

Amada Miyachi Corporation

Spectra-Physics

IPG Photonics Corporation

S?SS MicroTec SE

Disco

Market segment by region, regional analysis covers

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

Chapter 2, to profile the top manufacturers of Semiconductor Laser Scribe Machine, with price, sales quantity, revenue, and global market share of Semiconductor Laser Scribe Machine from 2019 to 2024.

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

Chapter 4, the Semiconductor Laser Scribe Machine 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 Semiconductor Laser Scribe Machine 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.

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Chapter 13, the key raw materials and key suppliers, and industry chain of Semiconductor Laser Scribe Machine.

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

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