Global Semiconductor Inspection System Market Research Report Information: Type (Wafer, Mask) End-user (SMEs, Large Enterprises) – Forecast Till 2023

The global semiconductor inspection system market is anticipated to touch USD 6.91 billion by 2023, as per an insightful report by Market Research Future (MRFR). It is expected to expand at a 14.3% CAGR during the assessment period (2017-2023). Semiconductor inspection systems, as the name implies, are systems capable of detecting flaws or defects in semiconductor chips prior to fabrication.

The increasing demand for high-performing and low-cost semiconductor chips is the primary factor driving the market. Demand for wafers in the consumer electronics sector is anticipated to fuel market demand over the forecast period. Emergence of Internet-of-Things (IoT) and its subsequent integration in connected devices in major industries can bode well for the market and provide it with a much-needed impetus. Rise of small and medium enterprises can boost market demand in the coming years. Limited number of manufacturers and paucity of resources are factors which can impede market growth.

Report Overview

This report allows the user to gain a deeper understanding of the ongoing events and trends in the market for semiconductor inspection systems. By correlating the historical data with key market dynamics, our analysts were able to make highly accurate projections in the report. MRFR’s report includes a thorough segmental analysis of the global semiconductor inspection system market segmented on the basis of type, end-user, and region with astute insights. This report has been prepared to assist industry participants in making informed decisions on growth strategies and operation management. Users will also come across drivers, trends, opportunities, and restraints which are likely to influence the growth of the market during the assessment period.

Segment Overview

By type, the semiconductor inspection system market has been segmented into wafer and mask inspection systems. The wafer inspection system segment is anticipated to enjoy a CAGR of 14.7% during the forecast period. Wafer inspection systems are instrumental in maintaining high process throughput and detecting particles in the bottom of contact holes and on the surface.

By end-user, the market is segmented into large and small & medium enterprises (SMEs). The large enterprise segment had dominated the market in 2017 owing to rapid industrialization and demand for wide array of equipment to operate in large-scale assemblies. Large organizations can outsource ancillary businesses to focus on their core businesses.

The segments and sub-segments covered in the report are analyzed under four major regions – North America, Europe, Asia Pacific (APAC), and Rest-of-the-World (RoW), with respective country-level market sizing. For the scope of research, the standard definition of the product/service “semiconductor inspection system” is included in the report. The report discusses and interprets the current and future opportunities of the industry by delivering an unbiased growth assessment.

Players Covered

Rudolph Technologies, Inc., JEOL Ltd., Nanometrics, Inc., KLA-Tencor Corporation, Applied Materials, Inc., Nikon Metrology NV, Lasertec Corporation, Hitachi High-Technologies Corp., Thermo Fisher Scientific, Inc., and ASML Holding NV are noteworthy players in the semiconductor inspection system market. Players in the market are focusing on reducing the size of integrated circuits while possessing double the capacity and speed of previous generational semiconductor chips. Advent of IoT and urgent need for sensors in connected devices can present new growth opportunities for these players.

The report offers comprehensive profiles on these market players and assesses their current standing in the semiconductor inspection system market. Company history coupled with annual turnover, segmental share, SWOT analysis, growth strategies, new product launches, mergers and acquisitions (M&A) activities, and latest R&D initiatives are outlined in the report.

Research Methodology

Market Research Future (MRFR) uses a combination of primary and secondary research to compile market reports. Primary data is accumulated from interviewing industry stalwarts and secondary research is collated by studying
white papers and annual reports of leading players. Our analysts use top-down and bottom-up approaches to validate the findings of the report. The report comprises news, current trends, and future prospects related to the market, all of which can provide a thorough understanding of the market to clients. Industry leaders can make accurate business decisions based on our insights.

Analysis Period
- Base Year - 2016
- Projection Period - From 2017 to 2023
- Market Denomination - USD Billion
- Conversion Rate - Considered as per the respective financial years

Intended Audience
- Government
- Memory Manufacturers
- Semiconductor Product Manufacturing Companies
- Sensors and ICs Manufacturers
- Electronic Component Suppliers

For the scope of research, the report offers a comprehensive analysis of the global semiconductor inspection system market.

Type
- Wafer semiconductor inspection system
- Mask semiconductor inspection system

End-user
- Small & medium enterprises
- Large enterprises

Region
- North America; The U.S., Canada, and Mexico
- Europe; France, Italy, Germany, the U.K., and Rest of Europe
- Asia Pacific; China, India, Japan, South Korea, and Rest of Asia Pacific
- Rest-of-the-World; Latin America and The Middle East & Africa
GLOBAL SEMICONDUCTOR INSPECTION SYSTEM MARKET

Global Semiconductor Inspection System Market has reached USD 2.84 Billion in 2016 and is projected to exhibit USD 6.90 Billion by 2023 with a growing CAGR of 14.3%

Asia Pacific is dominating the market with USD XX Billion in 2016 and is projected to reach USD XX Billion by 2023 with a growing CAGR of XX%

Drivers
- Rising demand for high performance, low-cost semiconductors
- Increasing demand for semiconductor wafers in consumer electronics

Restrains
- Limited availability of manufacturers and resources

Opportunities
- Expansion and Growth of Internet of Things (IoT)

TABLE OF CONTENTS

1 EXECUTIVE SUMMARY
1.1 Market Summary 12

2 MARKET INTRODUCTION

3 MARKET INSIGHTS