

Failure Analysis Market - Forecasts from 2018 to 2023

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Abstracts

The global failure analysis market is expected to grow at a CAGR of 6.80% to reach a market size of US\$9.315 billion by 2023, increasing from US\$6.277 billion in 2017. Failure analysis is the timely analysis of possible ways of malfunction of electrical, mechanical and electronic components of a system in order to prevent the safety or environment hazards. This analysis is done in almost every industry to ensure workers' safety from future accidents. Rising investments in R&D activities along with the falling prices of sensors is raising the demand for failure analysis equipment in the semiconductor industry. Growing demand for automated material handling is further driving the demand for failure analysis equipment. The burgeoning global food and beverage industry will show a high market growth of failure analysis equipment owing to the rising concerns over product testing and quality check procedures. Moreover, the consumer electronics industry will foresee a growth due to the increasing demand for smartphones, tablets, laptops, etc. and will aid in the development of the failure analysis market.

Asia-Pacific holds the largest market share of the global failure analysis market due to the growth of semiconductor technologies in these countries. However, factors such as high costs of failure analysis equipment will hinder the market growth during the forecast period.

This research study examines the current market trends related to the demand, supply, and sales, in addition to the recent developments. Major drivers, restraints, and opportunities have been covered to provide an exhaustive picture of the market. The analysis presents in-depth information regarding the development, trends, and industry policies and regulations implemented in each of the geographical region. Further, the overall regulatory framework of the market has been exhaustively covered to offer stakeholders a better understanding of the key factors affecting the overall market environment.

Identification of key industry players in the industry and their revenue contribution to the overall business or relevant segment aligned to the study have been covered as a part of competitive intelligence done through extensive secondary research. Various studies and data published by industry associations, analyst reports, investor presentations, press releases and journals among others have been taken into consideration while conducting the secondary research. Both bottom-up and top down approaches have been utilized to determine the market size of the overall market and key segments. The values obtained are correlated with the primary inputs of the key stakeholders in the failure analysis value chain. Last step involves complete market engineering which includes analysing the data from different sources and existing proprietary datasets while using various data triangulation methods for market breakdown and forecasting.

Market intelligence is presented in the form of analysis, charts, and graphics to help the clients in gaining faster and efficient understanding of the failure analysis market.

Major industry players profiled as part of the report are Presto Engineering, Inc., IBM Services, Rood Microtec, EAG Inc., and MASER Engineering B.V.

SEGMENTATION

The failure analysis market has been analysed through following segments:

By Technology

Chemical Mechanical Planarization (CMP)

Secondary Ion Mass Spectroscopy (SIMS)

Broad Beam Ion Milling

Energy Dispersive X-ray Spectroscopy (EDS/EDX)

Others

By Equipment

Scanning Electron Microscope (SEM)

Focused Ion Beam (FIB) System

Transmission Electron Microscope (TEM)

Dual Beam Systems

By Industry Vertical

Automotive

Oil and Gas

Defense

Construction

Manufacturing

Others

By Geography

Americas

United States

Canada

Brazil

Others

Europe Middle East and Africa

United Kingdom

Germany

France

Netherlands

Others

Asia Pacific

China

Japan

India

Australia

Others

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