

Global Failure Analysis Market 2017 - Research Methodology, Market Dynamics, Key Players, Segmentation and Forecast 2021

Failure analysis is the timely analysis of possible ways of malfunction of electrical, mechanical and electronic components of a system in order to prevent

PUNE, INDIA, January 19, 2017 /EINPresswire.com/ -- [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.

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Growing demand for automated material handling is further driving the demand for failure analysis equipment. In mushrooming global food and beverage industry, there will be a high market growth of failure analysis equipment owing to rising concerns over product testing and quality check procedures. Moreover, rising consumer electronics industry due to increasing demand for smartphones, tablets, laptops, etc. are further projected to aid the development of the failure analysis market.

Americas region holds the largest market share of global failure analysis market due to the presence of a large number of core industries that require failure analysis equipment. However, APAC region is anticipated to witness the fastest market growth owing to rapid industrialization, growing infrastructure and construction activities. Factors such as high costs of failure analysis equipment, especially in developing economies, will hinder the market growth during the forecast period.

Research Methodology

The first section of the report deals with detailed research methodology for calculating market size and forecasts, secondary data sources used and the primary inputs which were taken for data validation. This section also outlines various segmentations which have been covered as part of the report.

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Market Dynamics

Next section provides comprehensive market dynamics through an overview section along with growth drivers, challenges, and opportunities which exist in the current market. This section of the report also provides supplier and industry outlook as a whole; key industry, global and regional regulations which are determining the market growth and a brief technological aspect of failure analysis. Complete industry analysis has also been covered by Porter's five forces model as a part of this report section.

Segmentation

Thirdly, failure analysis market has been segmented by technology as CMP, SIMS, BIM, EDS/EDX, and others.

By Technology

- Chemical Mechanical Planarization (CMP)
- Secondary Ion Mass Spectroscopy (SIMS)
- Broad Ion Milling (BIM)
- 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 System

By Industry Vertical

- Automotive
- Oil and Gas
- Defense
- Construction
- Manufacturing
- Others

By Geography

Americas

North America

South America

Europe Middle East and Africa

Europe
Middle East and Africa

Asia Pacific

Market Players

Finally, competitive intelligence section deals with major players in the market, their market shares, growth strategies, products, financials, and recent investments among others. Key industry players profiled as part of this section are FEI, JEOL, TESCAN, Carl Zeiss SMT, and Thermo Fisher Scientific among others.

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Norah Trent

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+1 646 845 9349 / +44 208 133 9349

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