

# Failure Analysis Market Report: Trends, Forecast and Competitive Analysis to 2030

https://marketpublishers.com/r/FE43AC75F440EN.html

Date: January 2024

Pages: 150

Price: US\$ 4,850.00 (Single User License)

ID: FE43AC75F440EN

#### **Abstracts**

Failure Analysis Trends and Forecast

The future of the global failure analysis market looks promising with opportunities in the electronic & semiconductor, industrial science, material science, and bioscience applications. The global failure analysis market is expected to reach an estimated \$8.6 billion by 2030 with a CAGR of 8.2% from 2024 to 2030. The major drivers for this market are growing need for this technology in the electronics and semiconductor sector and increased attention to nanotechnology and regenerative medicine.

A more than 150-page report is developed to help in your business decisions. Sample figures with some insights are shown below.

Failure Analysis by Segment

The study includes a forecast for the global failure analysis by equipment, technology, application, and region.

Failure Analysis Market by Equipment [Shipment Analysis by Value from 2018 to 2030]:

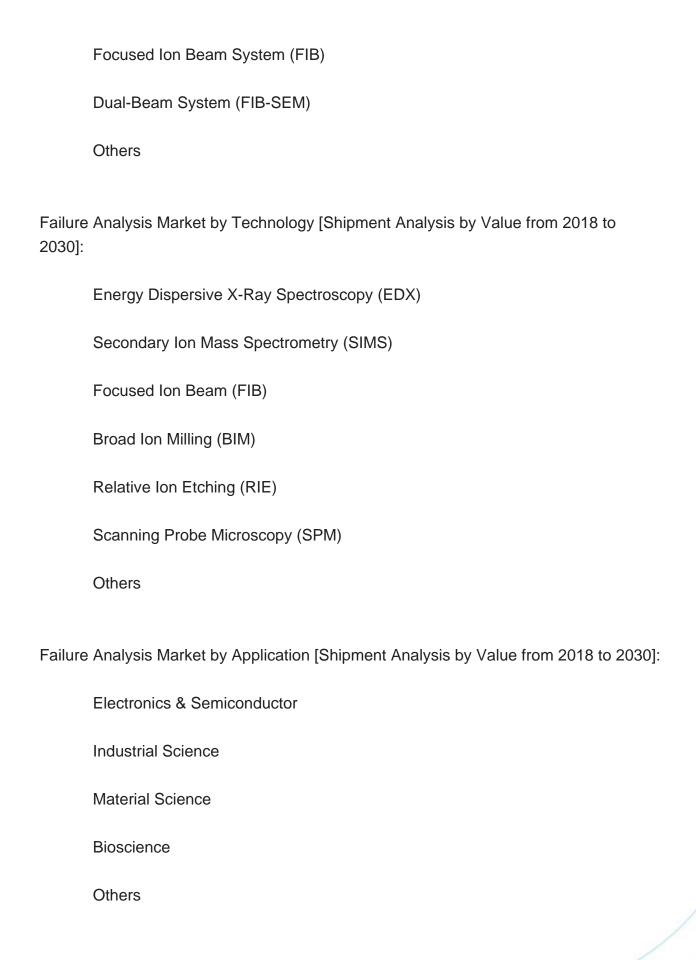
Optical Microscope

Scanning Electron Microscope (SEM)

Transmission Electron Microscope (TEM)

Scanning Probe Microscope







Failure Analysis Market by Region [Shipment Analysis by Value from 2018 to 2030]:

North America
Europe
Asia Pacific
The Rest of the World
List of Failure Analysis Companies
Companies in the market compete on the basis of product quality offered. Major players in this market focus on expanding their manufacturing facilities, R&D investments, infrastructural development, and leverage integration opportunities across the value chain. With these strategies failure analysis companies cater increasing demand, ensure competitive effectiveness, develop innovative products & technologies, reduce production costs, and expand their customer base. Some of the failure analysis companies profiled in this report include-
A&D
Bruker
Carl Zeiss
Hitachi High-Technologies
Horiba
Intertek
JEOL
Motion X

**Tescan Orsay Holding** 



#### Thermo Fisher Scientific

#### Failure Analysis Market Insights

Lucintel forecasts that focused ion beam system will remain the largest segment over the forecast period due to its expanding usage in the material sciences field.

Within this market, electronic & semiconductor will remain the largest segment due to increasing demand for failure analysis in optoelectronics, nanoelectronics, quantum dots, and tiny transistor chips.

North America will remain the largest region over the forecast period due to rising production of semiconductor and presence of key players in the region.

Features of the Global Failure Analysis Market

Market Size Estimates: Failure analysis market size estimation in terms of value (\$B).

Trend and Forecast Analysis: Market trends (2018 to 2023) and forecast (2024 to 2030) by various segments and regions.

Segmentation Analysis: Failure analysis market size by equipment, technology, application, and region in terms of value (\$B).

Regional Analysis: Failure analysis market breakdown by North America, Europe, Asia Pacific, and Rest of the World.

Growth Opportunities: Analysis of growth opportunities in different equipments, technologies, applications, and regions for the failure analysis market.

Strategic Analysis: This includes M&A, new product development, and competitive landscape of the failure analysis market.

Analysis of competitive intensity of the industry based on Porter's Five Forces model.

#### FAQ

Q1. What is the failure analysis market size?



Answer: The global failure analysis market is expected to reach an estimated \$8.6 billion by 2030.

Q2. What is the growth forecast for failure analysis market?

Answer: The global failure analysis market is expected to grow with a CAGR of 8.2% from 2024 to 2030.

Q3. What are the major drivers influencing the growth of the failure analysis market?

Answer: The major drivers for this market are growing need for this technology in the electronics and semiconductor sector and increased attention to nanotechnology and regenerative medicine.

Q4. What are the major segments for failure analysis market?

Answer: The future of the failure analysis market looks promising with opportunities in the electronic & semiconductor, industrial science, material science, and bioscience applications.

Q5. Who are the key failure analysis market companies?

Answer: Some of the key failure analysis companies are as follows:

A&D
Bruker
Carl Zeiss
Hitachi High-Technologies
Horiba
Intertek

**JEOL** 



Motion X

**Tescan Orsay Holding** 

Thermo Fisher Scientific

Q6. Which failure analysis market segment will be the largest in future?

Answer: Lucintel forecasts that focused ion beam system will remain the largest segment over the forecast period due to its expanding usage in the material sciences field.

Q7. In failure analysis market, which region is expected to be the largest in next 5 years?

Answer: North America will remain the largest region over the forecast period due to rising production of semiconductor and presence of key players in the region.

Q.8 Do we receive customization in this report?

Answer: Yes, Lucintel provides 10% customization without any additional cost.

This report answers following 11 key questions:

Q.1. What are some of the most promising, high-growth opportunities for the failure analysis market by equipment (optical microscope, scanning electron microscope (SEM), transmission electron microscope (TEM), scanning probe microscope, focused ion beam system (FIB), dual-beam system (FIB-SEM), and others), technology (energy dispersive x-ray spectroscopy (EDX), secondary ion mass spectrometry (SIMS), focused ion beam (FIB), broad ion milling (BIM), relative ion etching (RIE), scanning probe microscopy (SPM), and others), application (electronics & semiconductor, industrial science, material science, bioscience, and others), and region (North America, Europe, Asia Pacific, and the Rest of the World)?

- Q.2. Which segments will grow at a faster pace and why?
- Q.3. Which region will grow at a faster pace and why?



- Q.4. What are the key factors affecting market dynamics? What are the key challenges and business risks in this market?
- Q.5. What are the business risks and competitive threats in this market?
- Q.6. What are the emerging trends in this market and the reasons behind them?
- Q.7. What are some of the changing demands of customers in the market?
- Q.8. What are the new developments in the market? Which companies are leading these developments?
- Q.9. Who are the major players in this market? What strategic initiatives are key players pursuing for business growth?
- Q.10. What are some of the competing products in this market and how big of a threat do they pose for loss of market share by material or product substitution?
- Q.11. What M&A activity has occurred in the last 5 years and what has its impact been on the industry?

For any questions related to Failure Analysis Market, Failure Analysis Market Size, Failure Analysis Market Growth, Failure Analysis Market Analysis, Failure Analysis Market Report, Failure Analysis Market Share, Failure Analysis Market Trends, Failure Analysis Market Forecast, Failure Analysis Companies, write Lucintel analyst at email: helpdesk@lucintel.com. We will be glad to get back to you soon.



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