

Europe Acoustic Emission Testing Market Size study, By Equipment Type (Sensors, Amplifiers, Detection Instruments) By Industry Vertical (Chemical and Petrochemical, Oil and Gas, Energy and Power, Automotive, Food and Beverages, Healthcare, Others) and Country Forecasts 2022-2032

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Abstracts

Europe Acoustic Emission Testing Market is valued at approximately USD 816.06 million in 2023 and is anticipated to grow with a healthy growth rate of more than 5.42% over the forecast period 2024-2032. Acoustic Emission Testing offers a sophisticated approach to non-destructive testing, allowing to assess sources of acoustic energy within materials. This technique is instrumental in evaluating the structural soundness of a wide range of materials, with a special focus on metals and composites. Its versatility extends across multiple sectors such as chemical and petrochemical, oil and gas, energy and power, automotive, food and beverages, healthcare, where it plays a pivotal role in guaranteeing the robustness and dependability of critical structures and components. The rising focus on structural health monitoring is gaining attention towards Europe Acoustic Emission Testing Market. European government focus on structural age monitoring aims to assess the condition of infrastructure, buildings, bridges, pipelines, and other critical structures in real-time or near-real-time. Acoustic emission testing plays a crucial role in providing continuous monitoring of acoustic emissions generated by the structure, allowing early detection of defects, cracks, or other anomalies.

The Europe Acoustic Emission Testing Market is driven by the rising number of infrastructure development projects and rising demand for predictive maintenance across the region. Europe's ongoing infrastructure development projects, including

bridges, dams, pipelines, and nuclear facilities, require regular inspection and monitoring for structural health. AET provides a reliable method for detecting early signs of structural damage or defects. In addition, industries in Europe are increasingly adopting predictive maintenance strategies to minimize downtime and reduce operational costs. AET is vital in predictive maintenance due to its detection and monitoring capabilities. However, the high pricing of acoustic emission testing and unavailability of skilled workforce is going to impede the overall growth of the market during the forecast period 2024-2032.

The key countries considered for the Europe Acoustic Emission Testing market study includes UK, Germany, France, Italy, Spain, and Rest of Europe. In 2023, Germany was the dominating regional market in terms of revenue owing to factors such as increasing production of automobile across the region. AET provides a non-destructive testing method to detect defects such as cracks, voids, and delamination's in automotive parts like engine components, chassis, and suspension systems. Through implementing AET in the manufacturing process, automotive manufacturers could ensure that their products meet the required quality standards, reducing the risk of recalls and warranty claims. Whereas, the market in UK is expected to develop at the fastest rate over the forecast period 2024-2032.

Major market players included in this report are:

Vallen Systeme GmbH

Structural Vibration Solutions A/S

T?V Nord Group

Company 4

Company 5

Company 6

Company 7

Company 8

Company 9

Company 10

The detailed segments and sub-segment of the market are explained below:

By Equipment Type

Sensors

Amplifiers

Detection Instruments

By Industry Vertical

Chemical and Petrochemical

Oil and Gas

Energy and Power

Automotive

Food and Beverages

Healthcare

Others

By Region:

Europe

UK

Germany

France

Spain

Italy

ROE

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and Country level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market

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