

US 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) Forecasts 2022-2032

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Abstracts

US Acoustic Emission Testing Market is valued approximately USD 744.24 million in 2023 and is anticipated to grow with a healthy growth rate of more than 5.79% over the forecast period 2024-2032. Acoustic Emission Testing is a non-destructive technique for detecting and locating sources of acoustic energy in materials. It is frequently used to evaluate the structural integrity of materials, especially metals and composites. These tests are used in a variety of industries, including chemical and petrochemical, oil and gas, energy, and power, to assure the safety and dependability of structures and components. The rising integration with Industry 4.0 is gaining attention in US Acoustic Emission Testing Market. Integration of testing capabilities enables remote monitoring, real-time data visualization, and predictive analytics, facilitating proactive maintenance and decision-making. Organizations enhances operational efficiency, reduce costs, and improve asset performance across their facilities by leveraging IoT connectivity and cloud-based solutions.

The US Acoustic Emission Testing Market is driven by rising strategic initiatives towards modernization of aging infrastructure and increasing rate of urbanization across the region. Modernization efforts involve the implementation of preventive maintenance strategies to extend the lifespan of infrastructure assets and minimize the need for costly repairs or replacements. AET enables proactive monitoring of structural integrity, allowing maintenance teams to identify potential issues before they escalate into major

problems. In addition, urbanization also necessitates the expansion and maintenance of utility infrastructure networks, including water distribution systems, sewer lines, and electrical grids. AET is used to monitor the integrity of utility infrastructure components, such as pipelines, tanks, and pressure vessels, to detect leaks, corrosion, and structural defects. However, high spending associated to acoustic emission testing and lack of a skilled workforce is going to impede the overall demand for the market during the forecast period 2024-2032.

Major market players included in this report are:

Isco International LLC

MISTRAS Group

FIBA Technologies, Inc

Acuren Inspection Inc

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

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 of major regions.

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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