

US Structural Health Monitoring Market Size study, by Solution (Hardware, Software, Services), by Technology (Wired SHM, Wireless SHM), by Application (Bridges & Dams, Buildings & Stadiums, Vessels & Platforms, Airframes & Wind Turbines, Large Machines & Equipment) Forecasts 2022-2032

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Abstracts

US Structural Health Monitoring Market is valued at approximately USD 853.93 million in 2023 and is anticipated to grow with a healthy growth rate of more than 18.78% over the forecast period 2024-2032. Structural Health Monitoring (SHM) entails the continuous monitoring and evaluation of the structural integrity of infrastructure such as buildings, bridges, and pipelines. Leveraging sensors and advanced data analysis techniques, SHM aims to identify and diagnose structural issues in real-time, thereby improving safety, reliability, and durability while reducing maintenance costs and downtime. The anticipated surge in demand for SHM solutions in the US is attributed to aging infrastructure. Furthermore, the superior effectiveness of SHM in comparison to traditional inspection and testing methods is anticipated to propel additional growth in the US Structural Health Monitoring Market.

The United States is currently witnessing a rapid phase of urbanization and population growth, largely influenced by an influx of immigrants seeking educational and employment opportunities. Consequently, companies within the construction sector are compelled to adopt sophisticated Structural Health Monitoring (SHM) solutions to ensure the safety and welfare of residents in newly constructed buildings, driving the adoption of US Structural Health Monitoring Equipment. The demand for structural health monitoring solutions in the US is escalating as construction firms increasingly prioritize infrastructure safety and longevity, augmented by stringent government

mandates for structural integrity assessments. Additionally, the prevalence of infrastructure failures, such as bridge collapses and weakened flyovers, accentuates the necessity for monitoring solutions. However, the high initial costs of obtaining and installing structural health monitoring systems, combined with integration issues into existing infrastructure and legacy systems, represent substantial barriers to market expansion. Overcoming these hurdles is critical for enterprises in the US Structural Health Monitoring Market to earn positive returns in the future.

Major market player included in this report are:

Acellent Technologies, Inc.
Campbell Scientific, Inc.
Digitexx Data Systems, Inc
Geocomp, Inc.
GEOKON
Kinometrics
Company 7
Company 8
Company 9
Company 10

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

By Solution

Hardware
Software
Services

By Technology

Wired SHM
Wireless SHM

By Application

Bridges & Dams
Buildings & Stadiums
Vessels & Platforms
Airframes & Wind Turbines
Large Machines & Equipment

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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