

Global Magnetoelastic Sensors Market Growth 2026-2032

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Abstracts

The global Magnetoelastic Sensors market size is predicted to grow from US\$ 470 million in 2025 to US\$ 881 million in 2032; it is expected to grow at a CAGR of 9.4% from 2026 to 2032.

In 2025, global Magnetoelastic Sensor output reached about 15 million units and global capacity of around 20 million units. The average price is about USD 32 per unit, with gross margins near 42%. Magnetoelastic sensors are sensing devices that detect physical parameters such as stress, strain, pressure, force, torque, or magnetic field by exploiting the magnetoelastic effect, where mechanical deformation of a ferromagnetic material causes a measurable change in its magnetic properties (e.g., permeability, magnetization, or resonance behavior). These sensors typically use materials such as amorphous ferromagnetic alloys, nickel-based alloys, or rare-earth compounds, and can operate in passive, wireless configurations by detecting shifts in resonant frequency or magnetic response under external excitation. The supply chain of magnetoelastic sensors spans multiple layers: upstream, including raw materials (iron, nickel, cobalt alloys, rare-earth elements) and advanced magnetic materials producers; midstream, involving precision material processing (thin films, ribbons, or bulk components), sensor design, microfabrication, and integration with signal conditioning electronics (often incorporating ASICs and wireless modules); and downstream, covering system integrators and end-use industries such as automotive (torque and position sensing), industrial automation (load and stress monitoring), healthcare (implantable or wearable biosensors), aerospace, and infrastructure monitoring. The value chain is driven by materials science innovation, precision manufacturing, and increasing demand for contactless, durable, and IoT-compatible sensing solutions.

United States market for Magnetoelastic Sensors is estimated to increase from US\$

million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Magnetoelastic Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Magnetoelastic Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Magnetoelastic Sensors players cover Temposonics, Balluff, ASM Sensors, MEGATRON Elektronik, Turck Group, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the 'Magnetoelastic Sensors Industry Forecast' looks at past sales and reviews total world Magnetoelastic Sensors sales in 2025, providing a comprehensive analysis by region and market sector of projected Magnetoelastic Sensors sales for 2026 through 2032. With Magnetoelastic Sensors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Magnetoelastic Sensors industry.

This Insight Report provides a comprehensive analysis of the global Magnetoelastic Sensors landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Magnetoelastic Sensors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Magnetoelastic Sensors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Magnetoelastic Sensors and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Magnetoelastic Sensors.

This report presents a comprehensive overview, market shares, and growth opportunities of Magnetoelastic Sensors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Direct Magnetoelastic Sensors

Inverse Magnetoelastic Sensors

Resonant Magnetoelastic Sensors

Segmentation by Signal Output Type:

Frequency-Based Sensors

Amplitude-Based Sensors

Phase-Based Sensors

Impedance-Based Sensors

Segmentation by Application:

Automotive

Industrial

Energy & Power

Aerospace & Defense

Healthcare

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Temposonics

Balluff

ASM Sensors

MEGATRON Elektronik

Turck Group

AMETEK

TSM Sensors

Gefran

Sensitec

Novotechnik

Key Questions Addressed in this Report

What is the 10-year outlook for the global Magnetoelastic Sensors market?

What factors are driving Magnetoelastic Sensors market growth, globally and by

region?

Which technologies are poised for the fastest growth by market and region?

How do Magnetoelastic Sensors market opportunities vary by end market size?

How does Magnetoelastic Sensors break out by Type, by Application?

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