

Global Magnetoelastic Sensors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Magnetoelastic Sensors market size is expected to reach \$ 899 million by 2032, rising at a market growth of 8.9% CAGR during the forecast period (2026-2032).

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.

This report studies the global Magnetoelastic Sensors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Magnetoelastic Sensors and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Magnetoelastic Sensors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Magnetoelastic Sensors total production and demand, 2021-2032, (K Units)

Global Magnetoelastic Sensors total production value, 2021-2032, (USD Million)

Global Magnetoelastic Sensors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Magnetoelastic Sensors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Magnetoelastic Sensors domestic production, consumption, key domestic manufacturers and share

Global Magnetoelastic Sensors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Magnetoelastic Sensors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Magnetoelastic Sensors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Magnetoelastic Sensors market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Temposonics, Balluff, ASM Sensors, MEGATRON Elektronik, Turck Group, AMETEK, TSM Sensors, Gefran, Sensitec, Novotechnik, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Magnetoelastic Sensors market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Magnetoelastic Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Magnetoelastic Sensors Market, Segmentation by Type:

Direct Magnetoelastic Sensors

Inverse Magnetoelastic Sensors

Resonant Magnetoelastic Sensors

Global Magnetoelastic Sensors Market, Segmentation by Signal Output Type:

Frequency-Based Sensors

Amplitude-Based Sensors

Phase-Based Sensors

Impedance-Based Sensors

Global Magnetoelastic Sensors Market, Segmentation by Application:

Automotive

Industrial

Energy & Power

Aerospace & Defense

Healthcare

Others

Companies Profiled:

Temposonics

Balluff

ASM Sensors

MEGATRON Elektronik

Turck Group

AMETEK

TSM Sensors

Gefran

Sensitec

Novotechnik

Key Questions Answered:

1. How big is the global Magnetoelastic Sensors market?
2. What is the demand of the global Magnetoelastic Sensors market?
3. What is the year over year growth of the global Magnetoelastic Sensors market?
4. What is the production and production value of the global Magnetoelastic Sensors market?
5. Who are the key producers in the global Magnetoelastic Sensors market?
6. What are the growth factors driving the market demand?

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