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Global Electromagnetic Thickness Gauge Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Electromagnetic Thickness Gauge market size was valued at US$ 566 million in 2025 and is forecast to a readjusted size of US$ 833 million by 2032 with a CAGR of 5.6% during review period.

Electromagnetic thickness gauges are non-destructive coating thickness instruments that use magnetic induction, magnetic attraction, Hall-effect sensing, eddy-current sensing, or combined magnetic/eddy-current methods to measure coating thickness on metallic substrates. Magnetic induction is typically used for non-magnetic coatings on ferrous substrates such as steel, while eddy-current measurement is used for non-conductive coatings on non-ferrous metallic substrates such as aluminum, copper, or zinc.

Electromagnetic thickness gauges are a mature but widely used category within non-destructive testing and surface quality inspection. In this report, the category mainly refers to magnetic-induction, eddy-current, Hall-effect, magnetic pull-off, and dual magnetic/eddy-current coating thickness gauges. These instruments are used to measure paint, dry film coatings, powder coatings, anti-corrosion layers, anodized layers, and electroplated coatings on metallic substrates without damaging the surface.

The main value of electromagnetic thickness gauges lies in their portability, speed, low testing cost, and strong suitability for field inspection. Magnetic-induction gauges are typically used for non-magnetic coatings on ferrous substrates such as steel, while eddy-current gauges are used for non-conductive coatings on non-ferrous metals such as aluminum, copper, and zinc. Dual-mode instruments can identify ferrous and non-

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ferrous substrates and switch measurement principles automatically, making them especially useful for automotive inspection, industrial coating quality control, and maintenance applications.

Demand is supported by several stable end markets. Industrial coating quality control requires thickness measurement to ensure process consistency, coating performance, and material cost control. Corrosion protection inspection in ships, bridges, pipelines, storage tanks, offshore structures, and steel construction relies on coating thickness data to verify long-term protection. Automotive paint inspection, including used-car evaluation, repair inspection, insurance assessment, and factory paint quality control, creates high-volume demand for portable paint thickness meters. Electroplating, anodizing, powder coating, aerospace maintenance, rail equipment, and heavy machinery also require reliable coating thickness measurement.

From the supply side, the market is led by established professional instrument brands in Europe, North America, and Japan. Fischer, Elcometer, DeFelsko, ElektroPhysik, QNix, BYK-Gardner, Kett, ERICHSEN, and TQC Sheen have strong positions in industrial, anti-corrosion, automotive, coating, and laboratory inspection applications. Chinese suppliers such as TIME, Linshang, Landtek, and HUATEC are becoming more competitive in portable dual-mode gauges, automotive paint meters, general NDT instruments, ODM supply, and price-sensitive markets.

Competition is not defined only by whether a gauge can display a thickness value. Higher-end instruments must provide stable probe performance, repeatability, calibration traceability, automatic ferrous/non-ferrous substrate recognition, curved-surface compensation, rough-surface correction, data logging, Bluetooth or app connectivity, statistical analysis, and compliance with international standards. Professional customers also value probe durability, after-sales calibration, measurement documentation, and long-term product availability.

The market should continue to grow steadily rather than explosively. Low-cost automotive paint meters will remain highly price-competitive, especially through online channels, while professional industrial gauges will maintain stronger value through accuracy, reliability, probe systems, software, and standard compliance. Over the medium term, growth opportunities will come from corrosion maintenance, infrastructure inspection, powder coating quality control, automotive aftermarket testing, digital inspection workflows, wireless data transfer, and inline or semi-automated coating thickness measurement systems.

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This report is a detailed and comprehensive analysis for global Electromagnetic Thickness Gauge market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Measurement Principle and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Electromagnetic Thickness Gauge market size and forecasts, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Electromagnetic Thickness Gauge market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Electromagnetic Thickness Gauge market size and forecasts, by Measurement Principle and by Application, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Electromagnetic Thickness Gauge market shares of main players, shipments in revenue ($ Million), sales quantity (Units), and ASP (US$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Electromagnetic Thickness Gauge

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Electromagnetic Thickness Gauge market based on the following parameters - company overview, sales quantity, revenue, price,

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gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Helmut Fischer GmbH, Elcometer Ltd., DeFelsko Corporation, ElektroPhysik Dr. Steingroever GmbH & Co. KG, Automation Dr. Nix GmbH & Co. KG, BYK-Gardner GmbH, Kett Electric Laboratory, ERICHSEN GmbH & Co. KG, Industrial Physics, Beijing TIME High Technology Ltd., etc.

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

Market Segmentation

Electromagnetic Thickness Gauge market is split by Measurement Principle and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Measurement Principle, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Measurement Principle

Magnetic Induction Gauges

Eddy Current Gauges

Dual Magnetic-induction / Eddy-current Gauges

Magnetic Pull-off / Hall-effect Gauges

Phase-sensitive Eddy Current Gauges

Market segment by Measured Coating Type

Paint and Dry Film Coatings

Electroplated / Galvanized Coatings

Powder Coatings

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Anodized and Oxide Layers

Anti-corrosion and Protective Coatings

Market segment by Accuracy / Performance Class

Economy-grade Paint Thickness Meters

Standard Industrial Gauges

Professional Multi-probe Gauges

High-precision Laboratory Gauges

Online / Automated High-throughput Systems

Market segment by Application

Industrial Coating Quality Control

Corrosion Protection Inspection

Automotive Paint Inspection

Electroplating and Metal Finishing

Aerospace, Rail and Heavy Equipment

Laboratory, R&D and Calibration

Building and Infrastructure Maintenance

Major players covered

Helmut Fischer GmbH

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Elcometer Ltd.

DeFelsko Corporation

ElektroPhysik Dr. Steingroever GmbH & Co. KG

Automation Dr. Nix GmbH & Co. KG

BYK-Gardner GmbH

Kett Electric Laboratory

ERICHSEN GmbH & Co. KG

Industrial Physics

Beijing TIME High Technology Ltd.

Shenzhen Linshang Technology Co., Ltd.

PCE Instruments

Landtek Instruments

SaluTron Messtechnik GmbH

HUATEC Group Corporation

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

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Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Electromagnetic Thickness Gauge product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Electromagnetic Thickness Gauge, with price, sales quantity, revenue, and global market share of Electromagnetic Thickness Gauge from 2021 to 2026.

Chapter 3, the Electromagnetic Thickness Gauge competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Electromagnetic Thickness Gauge breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Measurement Principle and by Application, with sales market share and growth rate by Measurement Principle, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Electromagnetic Thickness Gauge market forecast, by regions, by Measurement Principle, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Electromagnetic Thickness Gauge.

Chapter 14 and 15, to describe Electromagnetic Thickness Gauge sales channel, distributors, customers, research findings and conclusion.

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Contents

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2 MANUFACTURERS PROFILES

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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