

# Global Material Testing Machines Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Material Testing Machines market size was valued at US\$ 4713 million in 2023 and is forecast to a readjusted size of USD 6769 million by 2030 with a CAGR of 5.2% during review period.

Material testing machine has been devised to measure tensile strength, strength in compression, shear, and bending, ductility, hardness, impact strength, fracture toughness, creep, and fatigue of metallic and non-metallic materials. In the process of research and exploration of materials, processes, technologies and structures, material testing machine is an indispensable and important testing instrument.

### Material Testing Machines Market Drivers

**Increasing Demand for Quality Control:** With rising awareness of quality assurance in manufacturing processes, industries are investing in material testing machines to ensure their products meet required standards, leading to a robust demand for MTMs.

**Growth of End-Use Industries:** Key sectors such as construction, automotive, aerospace, and manufacturing are expanding, driving the need for testing machines to assess materials like metals, plastics, rubber, and composites for quality and performance.

**Technological Advancements:** Continuous innovations in material testing technology, including enhancements in automation, sensor technology, and data analytics, improve the efficiency and accuracy of tests, making modern MTMs more appealing to users.

**Regulatory and Compliance Requirements:** Stricter regulations regarding safety and performance standards across various industries necessitate rigorous testing of materials. Organizations are increasingly investing in MTMs to comply with these regulations.

**Focus on Sustainable Materials:** The growing trend towards sustainability in product

development requires testing of eco-friendly materials. Companies are focused on ensuring that sustainable options meet performance standards, further boosting the demand for material testing machines.

#### Material Testing Machines Market Restraints

**High Initial Costs:** The capital investment required to purchase high-quality material testing machines can be substantial, particularly for small and medium-sized enterprises (SMEs), which may limit market entry for some companies.

**Complexity of Operations:** Advanced material testing machines often require specialized training for users. The complexity of operation can discourage companies from adopting these machines without adequate support and training.

**Economic Sensitivity:** The MTMs market is affected by economic cycles, with downturns leading to reduced capital expenditure on equipment. During recessions, companies may delay investments in new testing machines.

**Competition from Alternative Technologies:** Emerging alternative testing methods, such as non-destructive testing (NDT) and digital material testing solutions, can reduce reliance on traditional material testing machines. The adoption of these technologies may divert investment away from MTMs.

**Market Fragmentation:** The material testing machines market is characterized by a large number of players, from established manufacturers to niche suppliers, leading to intense competition and potential challenges in differentiating product offerings.

This report is a detailed and comprehensive analysis for global Material Testing Machines market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type 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 2024, are provided.

#### Key Features:

Global Material Testing Machines market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2019-2030

Global Material Testing Machines market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2019-2030

Global Material Testing Machines market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2019-2030

Global Material Testing Machines market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2019-2024

### **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 Material Testing Machines

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 Material Testing Machines market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include MTS, Instron, Shimadzu, Zwick Roell, Mitutoyo, Erichsen, TA Instruments, AMETEK, Tinius Olsen, Hegewald & Peschke, etc. This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

### **Market Segmentation**

Material Testing Machines market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, 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 Type

- Static Testing Machine
- Dynamic Testing Machine

Market segment by Application

- Automotive
- Electronic
- Medical
- Food
- Aerospace
- Educational
- Others

Major players covered

- MTS

- Instron
- Shimadzu
- Zwick Roell
- Mitutoyo
- Erichsen
- TA Instruments
- AMETEK
- Tinius Olsen
- Hegewald & Peschke
- ADMET
- Applied Test Systems
- Qualitest
- Torontech
- Devco
- TEST ONE
- Hung Da Instrument
- Shanghai Jiubin Instrument
- Jinan Liangong Testing Technology

### **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)

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 Material Testing Machines product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Material Testing Machines, with price, sales quantity, revenue, and global market share of Material Testing Machines from 2019 to 2024.

Chapter 3, the Material Testing Machines competitive situation, sales quantity, revenue,

and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Material Testing Machines breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2019 to 2030.

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 2019 to 2024. and Material Testing Machines market forecast, by regions, by Type, and by Application, with sales and revenue, from 2025 to 2030.

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 Material Testing Machines.

Chapter 14 and 15, to describe Material Testing Machines sales channel, distributors, customers, research findings and conclusion.

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