

High Frequency Fatigue Testing Machine

This high-frequency fatigue testing machine utilizes a digital pulse width modulator and intelligent force amplifier. Its intelligent air gap structure and upper vibration starting design allow for larger space and better sample clamping.



Product Overview

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This G series high frequency fatigue testing machine utilizes electromagnetic excitation resonance technology to evaluate the anti-fatigue fracture performance of various metal materials and components. Designed for precision, it supports a wide array of testing protocols, including symmetrical, asymmetrical, unidirectional pulsating, and block spectrum fatigue tests. Its robust construction and advanced control systems make it an essential tool for research and quality assurance in industries such as aerospace, automotive, and metallurgy.

Technical Capabilities

Industry Applications

Automotive • Aerospace • Universities • Scientific Research • Quality Inspection • Metallurgy • New Material R&D

Compatible Components

- Gears
- Bolts
- Chains
- Connecting rods
- Fine steel bars

Supported Test Modes

Symmetrical Fatigue, Asymmetrical Fatigue, Unidirectional Pulsating, Block Spectrum, Modulation Control

System Features

Monitored Parameters

- Frequency
- Amplitude
- Waveform
- Force
- Displacement
- Temperature

Operating Principle

Electromagnetic excitation resonance