

Electro-Hydraulic Servo Dynamic Fatigue Testing System

This fatigue testing system features a digital pulse width modulator and intelligent force amplifier. Its design ensures excellent alignment and coaxiality, minimizing lateral force, and it requires no cooling water.



Overview

High-Frequency Dynamic Testing Performance

This electro-hydraulic servo dynamic testing system is designed for high-performance fatigue and endurance testing of metal materials and precision components. Utilizing advanced servo-control technology, it enables precise regulation of force, displacement, and frequency for demanding research, development, and quality control applications. The system supports a wide range of test modes, including tensile, compression, bending, and torsion, ensuring versatile material analysis under various environmental conditions.

Capabilities

Supported Test Modes

- Symmetrical fatigue test
- Asymmetrical fatigue test
- Unidirectional pulsating fatigue test
- Block spectrum fatigue test
- Modulation control fatigue test
- Tensile/Compression testing
- Bending/Torsion testing

Commonly Tested Parts

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

Applications

Target Industries

Automotive, Aerospace, Higher Education, Scientific Research, Quality Inspection, Metallurgy, Material R&D