

High Temperature Creep Fatigue Testing Machine

This testing machine features an integrated host with a temperature control system to save space. Its automatic leveling system adopts redundant control and a two-way opposed slot photoelectric switch for stable and reliable performance.



Product Overview

Professional Material Testing Solution

The RPL series electronic high-temperature creep fatigue testing machine is a versatile system designed for advanced material evaluation. It supports comprehensive testing capabilities including creep, relaxation, durability, and low-cycle fatigue under high-temperature environments. Featuring a fully automatic control system, it is ideal for rigorous testing of metals, alloys, ceramics, and composites in high-stakes industries like aerospace and power generation.

Technical Capabilities

Supported Test Modes

- Creep
- Relaxation
- Durability
- Compress strength over zero
- Low-cycle fatigue
- Creep fatigue
- Strain durability
- Thermo-mechanical fatigue

Dynamic Process Modes

Tension-Tension, Tension-Stress, Continuous Over-Zero

System Configuration

Standard System Components

Component	Function
Draw bar	Force transmission
Grips	Specimen securement
Extensometer	Strain measurement
High-temperature furnace	Thermal environment

Operational Features

Automation

Fully Automatic • Specialized Controller