

High-Temperature Creep Durability Testing Machine

This testing machine is designed to conduct creep and stress-rupture tests on materials at elevated temperatures. It features a loading system, temperature control, and data acquisition capabilities to evaluate long-term material performance.



Product Overview

High-Performance Material Testing

The RPL series electronic High-Temperature Creep Fatigue Testing Machine is a versatile solution engineered for advanced material analysis. It provides comprehensive capabilities for creep, stress relaxation, and durability testing, while also supporting complex low-cycle fatigue and creep-fatigue evaluations. Designed for precision, this system ensures reliable performance in demanding high-temperature environments, making it an essential tool for metallurgy and material science research.

Capabilities

Supported Testing Modes

- Creep Testing
- Stress Relaxation
- Durability Testing
- Compress Strength (Over Zero)
- Low-Cycle Fatigue
- Creep-Fatigue Interaction
- Strain-Controlled Fatigue

Dynamic Process Modes

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

System Configuration

System Components

Component	Description
Loading System	Precision electronic loading for static and dynamic tests
Environmental Control	High-temperature furnace for elevated environment simulation
Data Acquisition	Integrated extensometer and draw bar system
Control Interface	Fully automatic operation via specialized controller

Automation

Yes