Slow Strain Rate Tensile Stress Corrosion Tester

This testing machine assesses material resistance to stress corrosion cracking and creep. It integrates a temperature control system, LCD with network communication, and an automatic leveling system for convenient and reliable operation.

Product Overview

High-Performance Stress Corrosion Testing

The RDL series tester is a sophisticated electronic system engineered for comprehensive material analysis, including creep, relaxation, and durability. It enables specialized testing such as slow strain rate tensile (SSRT) evaluations and low-cycle fatigue, even in high-temperature and corrosive environments. Designed for reliability, the system features a precise loading mechanism, integrated high-temperature furnace, and advanced data acquisition to assess material durability in sectors like aerospace and chemical processing.

Technical Capabilities

Dynamic Process Options

- Tension-tension mode
- Tension-stress mode
- Continuous operation
- Over-zero load cycling

Supported Testing Modes	Creep, Relaxation, Durability, Compression Strength, Low-Cycle Fatigue, Creep Fatigue, Stress Corrosion Cracking

System Components

Included Testing Infrastructure

Component	Function
Draw bar	Sample loading
Grips	Sample securement
Extensometer	Strain measurement
High-temp furnace	Environmental control

Compliance and Application

Target Industries

Aerospace • Automotive • Chemical Processing • Oil and Gas