

CORROSION FATIGUE LOAD FRAME

CORROSION FATIGUE LOAD FRAME

OVERVIEW

Cortest Corrosion Fatigue (CF) Load Frames use the widely accepted design of the SSRT/CERT load frames but with an advanced drive system. This drive system utilizes a state-of-the-art linear actuator with a gear reduction system and a servo motor that is capable of performing cyclic testing at extension rates up to 3.5 mm/sec and fatigue frequencies up to 2 Hz along with all of the other capabilities of the SSRT/CERT load frames. **This offers an economical alternative to those looking for a corrosion fatigue system at a fraction of the cost of a servo-hydraulic test system.** Each testing system has a built-in data acquisition system with an intuitive setup interface to easily prepare and monitor any test.

CATEGORIES : OIL & GAS | STEEL | NUCLEAR | RESEARCH

CORROSION FATIGUE LOAD FRAME SYSTEM FEATURES

- -Materials of Construction: 17-4 PH Load Components and Inconel 718 Grips/ Pull Rods
- -Load Capacities Available in 6,000 lbs (2722 kg) and 10,000 lbs (4,536 kg)
- -Pressures Up to 62 MPa (8,992 PSI) with Autoclave Capacities Up to 3.4 Liters
- -Temperatures Up to 600°C (1112°F)
- -Water-Cooled Feed-Thru Fittings Available

-Fatigue Frequency: Up to 2 Hz

- -Extension Rate Range: Up to 3.5 mm/s
- -Dual LVDTs for Maximum Sensitivity at Low Load Levels
- -Custom Porting HIP NPT Isolated Feed-Through

-Load or Stroke Control

CONTROLS

- -PC Controlled Data Acquisition System
- -Compact Tabletop Design
- -Keyboard/Mouse Interface
- -Cortest Model AC-12T
- -23" Monitor
- -DCPD Capabilities
- -LabVIEW Based Software Tests Slow Strain Rate Test Constant Load Fatigue Test Creep Test

DRIVE MECHANISM ELECTROMEC HANICAL LINEAR ACTUATOR

extension rates up to **3.5 mm/s**

fatigue frequency up to **2 Hz**

TYPICAL APPLICATIONS

- -Slow Strain Rate Testing NACE TM 0198
- -Constant Load Testing NACE TM 0177
- -Low-Cycle/High-Cycle Fatigue Testing
- -High Temperature, High Pressure Stress Corrosion Cracking
- -Electrochemical Studies
- -DCPD Testing ASTM E647
- -New Product Development/Testing
- -Supercritical Steam
- -Nuclear Flow Loops