Product name:	Product code:
Rivet and Aircraft Structural Joint Shear Fatigue Testing System	CMI-IND-0429

Description

Servo-hydraulic fatigue frame with hydraulic grips for cyclic loading of riveted and bolted lap joints until crack or fastener failure. Used by aircraft structure laboratories for joint life validation of airframe components.

Technical specification

- Hydraulic wedge grips
- Specimen alignment fixture
- Control software

The system applies tension-tension cyclic loads to riveted lap joints and counts cycles to crack or fastener failure. Load waveform, R ratio and frequency are programmed, and the machine stops automatically on failure.

Features

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- Servo-hydraulic actuator with closed-loop control
- Load frame with hydraulic wedge grips
- Programmable sine and spectrum loading
- Automatic stop on failure or deflection limit
- Data logger for cycles, load and displacement

Technical Specifications

Dynamic capacity	+/- 100 kN
Static capacity	100 kN
Actuator stroke	+/- 50 mm
Frequency	0.01 to 50 Hz
Load accuracy	+/- 0.5 percent
Hydraulic power pack	25 lpm, 210 bar
Standards	ASTM E466, ASTM E8, ISO 1099
Power	415 V, 3 phase, 50 Hz

Standard Accessories