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Product Overview

PhotoStress® Analysis

The LF/Z-2 Computerized Reflection Polariscope System for Full-Field Stress Analysis

Micro-Measurements

EMEMS®

www.photostress.com

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PhotoStress® Analysis

LF/Z-2 Reflection Polariscope System

What is PhotoStress® Analysis?

- A full-field stress and strain analysis method
- Can be utilized under various live load conditions
- Suitable for residual stress analysis, assembly stress inspection, and fatigue tests
- Can be applied to various materials (metals, composites, concrete, and more)
- Easy to use and analyze results



Suspensions



Aluminum (top), composite material (bottom)



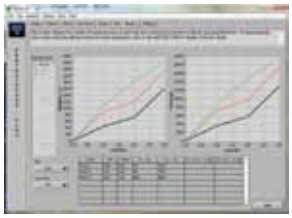
Low load (top), high load (bottom)

About PhotoStress

- The PhotoStress® analysis system is composed of a reflection polariscope and PSCalc® computer software that enables the user to store and process LF/Z-2 readings of stress and strain
- A variety of photoelastic coatings may be applied on a wide range of materials, with simple or complex shapes



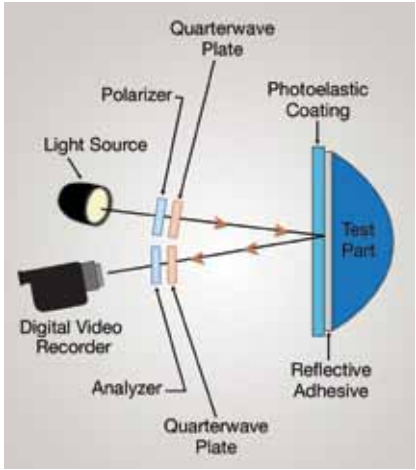
LF/Z-2 Reflection Polariscope—tripod-mounted or handheld



PSCalc® Software



PhotoStress coating applied to a structure of complex shape



Schematic representation of a reflection polariscope

SPECIFICATIONS	
Range	From 0% to 150% elongation (by various coating types)
Resolution	≈10 µs (for 3-mm coating thickness)
Measuring Area	Subject to coated area
Working Distance	Up to 3.05 m (10 ft)*
Light Source	White light
Operating System	Windows 2000, XP, Vista, Windows 7
Size and Weight	Maximum height: 1950 mm (76.4″); Assembled weight: 2.9 kg (6.3 lb)
Camera Resolution	Function of camera type used
Other Components	PSCalc computer software, laser-based direction indicator, USB compensator interface, application kit, portable operation handgrip, technical/operating manuals and tech notes

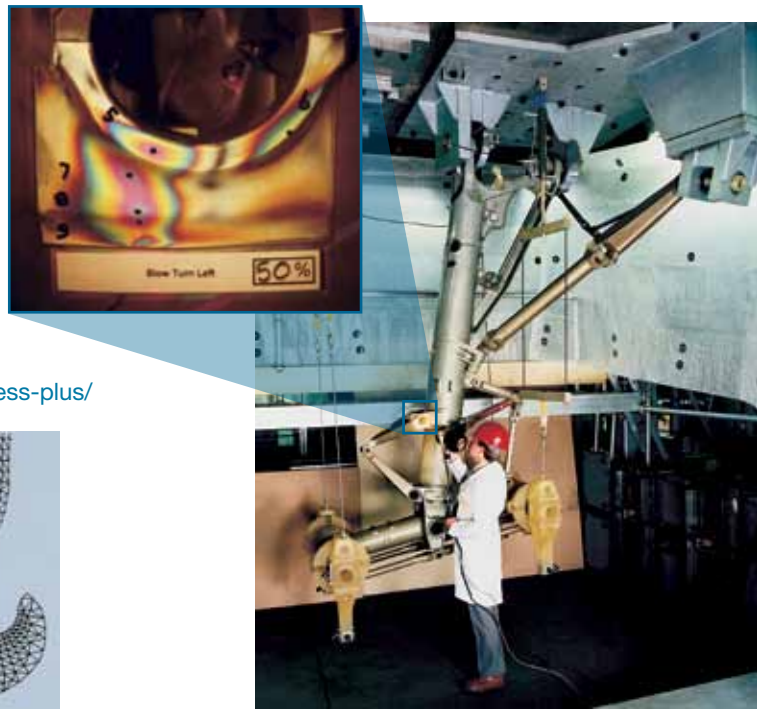
PhotoStress® Analysis

LF/Z-2 Reflection Polariscope System

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PhotoStress® Analysis System – Main Benefits and Solutions

- Instant identification of stress concentrations and zero-stressed areas
- Quantitative measurement of stress and strain at any point on the structure
- Validation of any finite element analysis (FEA)
- Weight reduction optimization
- Analysis of:
  - Stress resulting from fabrication tolerances
  - Stresses which occur during assembly processes
  - Residual stresses due to processes such as welding and casting
  - Simple or complex stress situations



Learn more at:
www.vishaypg.com/micro-measurements/photo-stress-plus/



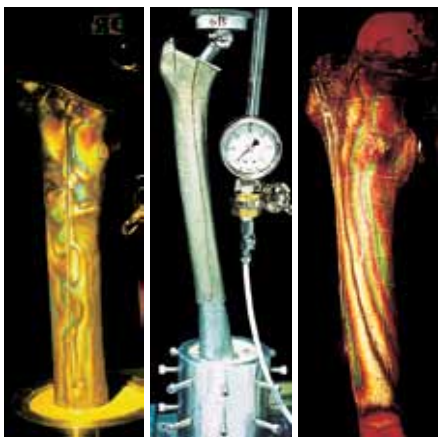
PhotoStress®



FEA



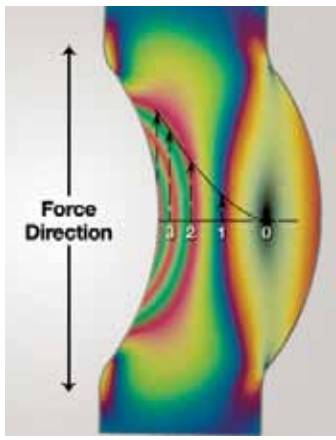
PhotoStress analysis of a landing gear



Human bones—PhotoStress stress distribution analysis



PhotoStress stress patterns of an aircraft fuel door panel under load



Stress distribution in a C-shaped beam

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