CUBUS Program: Elastomer test

The Cubus Elastomer Test enables static and dynamic characterisation testing and analysis of elastomer components. Fatigue testing with sequenced characterisation is also supported

Features Include:

- Test project oriented save and restore tests, results and acquired data to disk
- Supports single or multiple actuator tests
- Specimen management with user defined specimen properties

Static Characterisation test element:

- Pre-load, Scrag cycles and Final test cycle
- Control Displacement rate to Load targets
- Static Stiffness analysis options: Chord, Fitted linear, Tangential

Dynamic Characterisation test element:

- Stepped sine cycles over frequency range
- Load mean with Displacement amplitude; Accuracy ensured by adaptive control
- Analysis - Stiffness: Dynamic, Elastic, Viscous; Loss angle, tanδ, Energy loss
- Provides Time domain and Frequency domain analysis
- Results in graphical and tabular form with export to ASCII / Excel

Integrated Block program endurance testing

- Requires Cubus Block
- Block program endurance testing with sequential characterisation elements
- Acquired test data can be analysed or exported post test
- PID and Limits saved with the test project