

## **CUBUS** *Base Software*

Truly intuitive and easy to use Cubus software allows you to manage everything about your test system from one place. It takes care of system configuration, test method creation, test run, data acquisition, and data export for test reporting.

### **System**

- Management and control of single and multiple actuators
- Configure and calibrate transducers, including realtime transducer linearisation
- Create virtual / computed channels
- Up to 8 control feedbacks per actuator
- Configure multiple safety limits on each signal with user-defined limit actions
- Control of HPU and hydraulic sub-stations
- Control analogue and digital IO
- Adjust actuator position from software or remote hand controller with convenient encoder wheel
- Change between load limited setup mode and test mode from test PC or hand controller
- Procedures and Event / Action provide powerful scripting
- Save system & test configurations to disc for easy restoration in the future

### **Waveform & Test**

- Test project management enforces structured, digital documentation
- Waveshapes: Sine, Square, Triangle, Sawtooth, Trapezoid, Turning points and Time History data files
- Adaptive control ensures accurate achievement of test targets, even when specimen deteriorates
- PID tuning with Auto-tune and adaptive auto-tune
- Cross mode and mixed mode for cyclic waveforms
- Pause and resume a test, from the software or handset

### **Results & Data**

- Real-time graphics - Stripchart / oscilloscope, live XY-Chart
- Multiple live digital displays ensure you can always see what each transducer is reading
- Choose between Direct, Mean, Amp, Max, Min, Range, Peak, Trough, Cycle count on digital displays
- Full data logging: cycle by cycle data and peak/trough data stored in separate files for easy analysis
- Intelligent data acquisition with Periodic or Turning points capture
- User definable data reduction, so you only save the data that truly matters
- Plot results in Cubus software for instant analysis, or export the data as .csv or .txt for easy offline analysis

...and more

- Able to configure and calibrate Signal Cube transducer channels
- Can be enhanced with: cPlot, Block, Ramp, Cyclic Pro, External, Dura, and QanTiM® modules
- Application-specific modules available: Seatbelt Anchorage, Tensile, Elastomer, and Damper