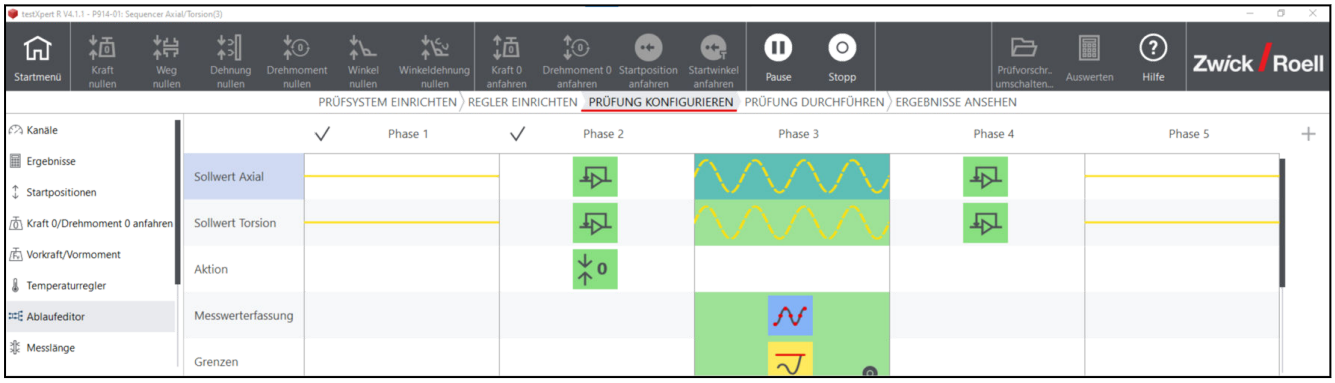
Product Information

testXpert R Biaxial Sequencer Testing Software – the Graphical Block Editor

CTA: 273081



Configuration of the test sequence with testXpert R biaxial sequencer

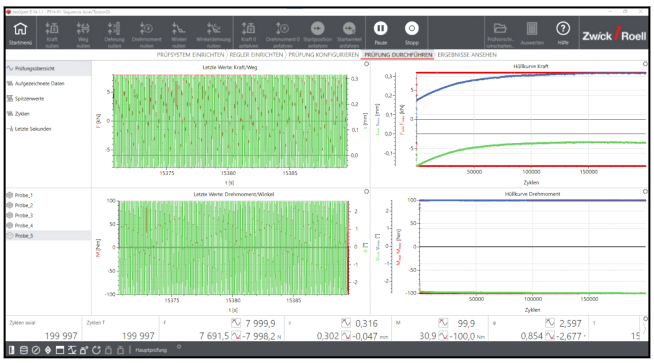
testXpert Research biaxial sequencer testing software is a graphical block editor for intuitive generation and execution of both simple and complex test sequences.

Up to 100 custom blocks can be parameterized. Definitions of set value functions from ramp, sine and triangle/trapezoid with freely selectable start directions are possible.

Control-path switching between individual blocks is possible and blocks can be linked to each other via sequence loops. The test sequence is processed in the order shown on the screen.

Limits plus tolerance bands can be set. Test-data acquisition with peak values (failure envelope) and hysteresis is possible, while the test-data grid can be specified freely.

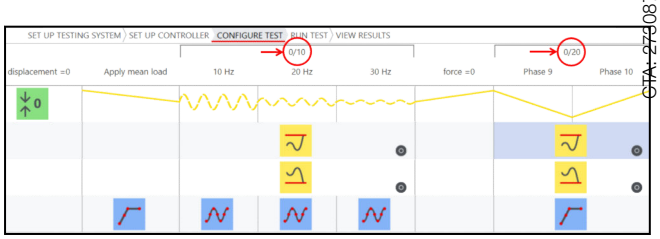
CTA: 273083



Online graph and status display

The controller PID settings, test-sequence parameters and results are stored together in one file. This information remains permanently available.

CTA: 203041



Sequence with loops

CTA: 273087

Input mask of control parameters

During the test, test data can be observed in an online graphic. A status display shows which block is currently being executed.

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Executable scenarios in testXpert R biaxial sequencer

- Drive ramp
- Execute sine
- Set limits
- Drive ramp in travel control
- Drive ramp in travel control
- Drive sine in travel control
- Drive sine in force control
- Fatigue in force control, torsion axis holds in angle control
- Fatigue in torque control, axial axis holds in travel control
- Alternative target: Ramp in force control, limit on torque
- Alternative target: Ramp in torque control, limit on force
- Screw-in test
- Both axis cycles with phase control

The design of all testXpert R test programs is workflow oriented and mirrors a lab's operating processes. This guides the user through the test with logical and traceable steps:

1. Set up testing system

2. Set up the controller

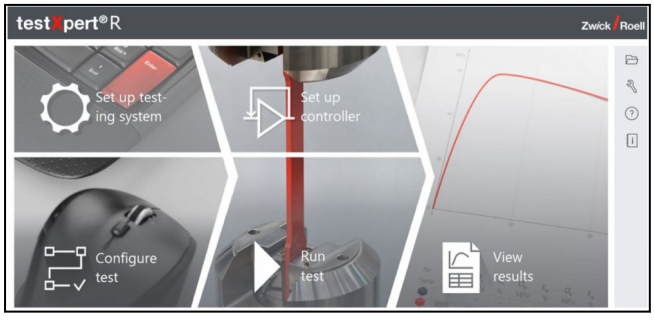
3. Configure the test

4. Run the test

5. View the results

This structure, as well as the software interface are almost identical to the software for static tests: testXpert III. Therefore the training requirements are minimized and laboratory personnel can operate diverse ZwickRoell machine types in a short time.

CTA: 204636



Start screen testXpert Research - workflow oriented design

All data at ambient temperature.

Subject to change in the course of further development.