testXpert® III
Testing Software

Our Solutions for Your Requirements
testXpert® III

...is intuitive and workflow-based

You need
Easy-to-operate testing software that prevents operator error?
Getting started is easy! Experience a workflow that reflects the work processes used in your lab.

- Configure all **machine-relevant** settings for your application in one central place.
testXpert® III is intuitive & workflow-based

Getting started is easy! Experience a workflow that reflects the work processes used in your lab.

- Configure test-relevant settings with the help of our intelligent wizard.
testXpert® III is intuitive & workflow-based

Getting started is easy! Experience a workflow that reflects the work processes used in your lab.

- Start a standard-compliant test with ease after setting all parameters once only.
testXpert® III is intuitive & workflow-based

Getting started is easy! Experience a workflow that reflects the work processes used in your lab.

- All series & exports can be viewed in an additional secure mode protected from manipulation.
testXpert® III is intuitive & workflow-based

In testXpert III all test-relevant settings are logically grouped and kept separate from general system settings.
testXpert® III is intuitive & workflow-based

testXpert III is a role-based software with integrated user management.
testXpert® III is intuitive & workflow-based

testXpert III is a role-based software with integrated user management. Use of Windows accounts is possible.
testXpert® III is intuitive & workflow-based

Users see only what is important to them and can focus on the task at hand right from the start. This keeps training time to a minimum.
testXpert® III is intuitive & workflow-based

Navigate through each test in the same straightforward way. Expressive icons make it fast and easy to find what you need.
testXpert® III is intuitive & workflow-based

All related information is associated visually.
testXpert® III is intuitive & workflow-based

Additional functionalities are available via buttons if needed.
testXpert® III is intuitive & workflow-based

Additional functionalities are available via context menu if needed.
testXpert® III is intuitive & workflow-based

An intelligent wizard function enables easy and structured input of all test parameters and automatic verification of entries for plausibility.
testXpert® III is intuitive & workflow-based

The intelligent wizard guides you systematically through the test configuration.
testXpert® III is intuitive & workflow-based

Once you set all the options and parameters you need for testing and exporting the test data, you’re ready to start the test.
testXpert® III is intuitive & workflow-based

You can use the standard, expanded or even customized intelligent wizard for advanced adjustments.
testXpert® III

...offers prepared standard tests

You need
Fast performance and documentation of standardized test methods?
testXpert® III offers prepared standard tests

testXpert III contains over 600 Standard Test Programs, enabling you to find the right test program for almost any standard.

➢ All parameters, results and the report are already pre-configured and conform to your industry's terminology.
testXpert® III offers prepared standard tests

We understand our customers’ industries. Special functions & terminology make testXpert III tests optimized for each industry.
testXpert® III offers prepared standard tests

You can instantly start a Standard Compliant Test in your application in just a few seconds with the Open & Search dialog.
testXpert® III offers prepared standard tests

Standard-compliant testing can be as easy as that!

Open testXpert® III

Load test program

Run test

View report and test settings
testXpert® III offers prepared standard tests

The View Results mode prevents users from making subsequent modifications to the data and results can be used to verify the test.
testXpert® III

...is versatile

You need
A wide range of applications on one machine? Or the same software for different types of machines?
testXpert® III is versatile

testXpert III is the result of close cooperation with software users in the materials testing industry and the experience of over 30,000 successful testXpert installations.

- The workflow-based philosophy of testXpert III fits to all testing machines & instruments of the Zwick/Roell Group.

- The same software can be used for all applications and test types.
testXpert® III is versatile

testXpert III offers you a superior product portfolio.

Standard Test Programs

Master Test Programs

Options/Sensors

Graphical Sequence Editor/Customized Solutions

Zwick/Roell
testXpert® III is versatile

Additional channels can be easily added in testXpert III.
Additional results can be easily added in testXpert III.
testXpert® III

...ensures reliable test results

You need
Accurate, repeatable, reproducible and traceable results?
Zwick, together with its machine and software solutions, stands for accuracy, repeatability and reproducibility and for seamless result traceability.

Our machines operate with precision. The average of the test results obtained is very close to the reference value.

When tests are repeated under the same conditions, the results obtained are closely grouped.

When Zwick machines performing the same test are compared, the results are reproducible.

The continuous documentation of calibrations and tests makes all results transparent and traceable.

accurate  repeatable  reproducible  traceable
testXpert® III ensures reliable test results

You can define reproducible test conditions with our unique System Configuration Builder, which guarantees repeatability of the test results.
testXpert® III ensures reliable test results

Select the test area you’re operating in.
testXpert® III ensures reliable test results

Set the start and safety positions of the crosshead.

- Upper softend: 300,000 mm
- Lower softend: 150,000 mm
- Current tool separation/Current grip to grip separation: 5,000 mm

6.02 N | Grip to grip separation: 5,000 mm | Crosshead absolute: 274,000 mm
testXpert® III ensures reliable test results

Set the force limits to protect the user and testing system.

Lower force limit
-2500,000 N

Operator and specimen protection function
Set up the safety area to protect the tools and extensometers.
testXpert® III ensures reliable test results

Ensure that you have the maximum safety.

![TestXpert III configuration screen](image)

- **Test area:**
  - Top
  - Bottom

- **Enable start of test with sensors defined in the system configuration only**

- **System configuration name:** Tensile test

- **Grip to grip separation:** 100,000 mm

- **Crosshead absolute:** 409,510 mm

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testXpert III – Testing Software

Our Solutions for Your Requirements
testXpert® III ensures reliable test results

The information about the connected sensors is saved and traceable for each specimen.
Save the system configuration and link it to the test program.
testXpert® III ensures reliable test results

testXpert III always knows how, where and with what the test is to be performed and offers maximum safety for the user and testing system.
testXpert® III ensures reliable test results

"When does who, do what, why and who is responsible?"
testXpert® III ensures reliable test results

testXpert III logs all test- and system-relevant actions and settings and enables you to trace the reason for a change.
testXpert® III ensures reliable test results

Any changes to the test configuration will be documented.
You can see exactly when who, did what, why and who permitted this action or signed off on it.
testXpert® III ensures reliable test results

Electronic signature protects from unauthorized changes.
The electronic signature protects the test program from manipulation and can be used as paperless documentation.
User management allows you to set who or how many people must sign the test program or the report.
testXpert® III ensures reliable test results

The test results and test configuration are protected from manipulation at all times and the test results are traceable.
testXpert® III ensures reliable test results

Easy traceability of specimen behavior is assured with videos synchronized exactly to the test – Video Capturing Plus.
testXpert® III ensures reliable test results

You can visually reconstruct the specimen behavior & generate single frames to view interesting points in the test sequence.
Accurate results for compression tests are ensured by means of automatic real-time correction of machine deformation.

- Maximum displacement measurement accuracy
- Control is directly through the corrected channel

⇒ Allowing displacement targets to be attained exactly
Internationally recognized raw data sets and internationally recognized tensile test results ensure reproducibility in the calculation of characteristic values.
...can be integrated perfectly

You need
Integration of the testing software into the company’s IT landscape?
testXpert® III can be integrated perfectly

Set your requirements using the Structure Editor’s wide range of functions and testXpert III will automatically export the data.
testXpert® III can be integrated perfectly

Export all required test data, to common applications or to your own customized solutions.
testXpert® III can be integrated perfectly

testXpert III integrates data from external sensors, I/Os and external devices or measurement amplifiers.

I/O cards & sensors

External devices

HBM measurement amplifiers
testXpert® III can be integrated perfectly

testXpert III reduces input errors, increases efficiency in the test lab, and communicates with every IT system through automated importing and exporting.

Databases/ERP systems

Read in order, e.g. via barcode
testXpert® III

...is flexible

You need
Software configurable
to individual and future requirements?
testXpert® III is flexible

Create test sequences of any type with all the flexibility you need with the Graphical Sequence Editor.
**testXpert® III** is flexible

Freely configurable positioning, limit and logic module blocks enable almost any test sequence imaginable.
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You can combine test events, parameters and results to your requirements easily by drag & drop.
testXpert® III is flexible

Unique test and evaluation requirements are possible with testXpert III: we get started where the others leave off!
testXpert® III

...is the safest testing system

You need

A testing system with the focus on overall safety?
testXpert® III is the safest testing system

We make no compromises with Zwick safety technology – we use only high-quality, industry-proven safety components in all products.

Mechanics
- Safety doors
- Safety housing
- Safety devices
- Safety enclosures with access control
- Safety devices with interlocks

Electronics
- testControl II
- 2-handed operation
- Safety interlocks
- Limit switches
- Mobile emergency STOP

Software
- Safe operation
- Safety area monitoring
- Crosshead limits for test area
- Fixture separation
- User management
- Traceability