Zwick / Roell

Intelligent Testing

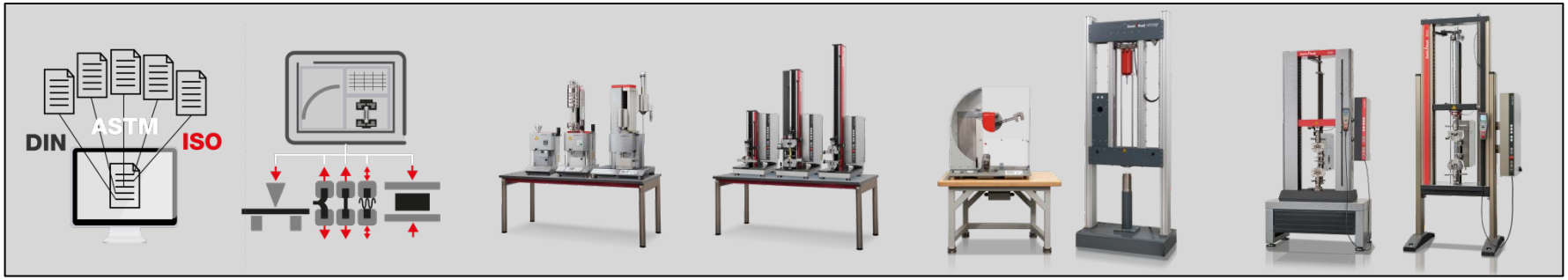
testXpert® III

October 2016, Ulm

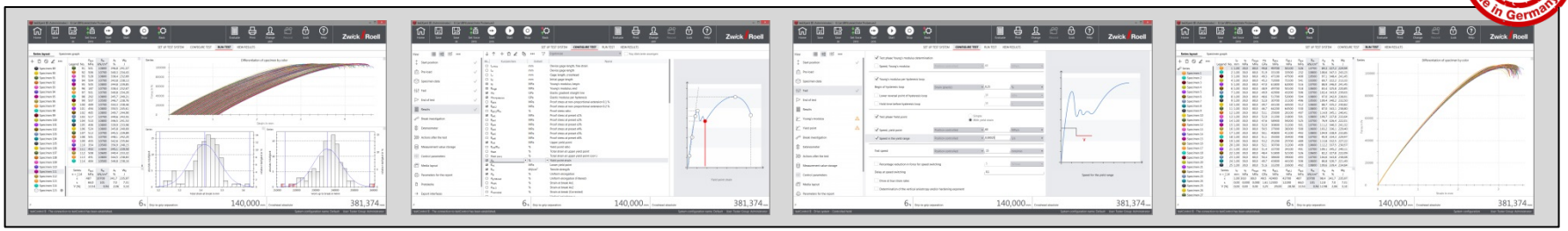
125 testXpo
FORUM FOR MATERIALS TESTING
October 10-13, 2016 at Zwick in Germany

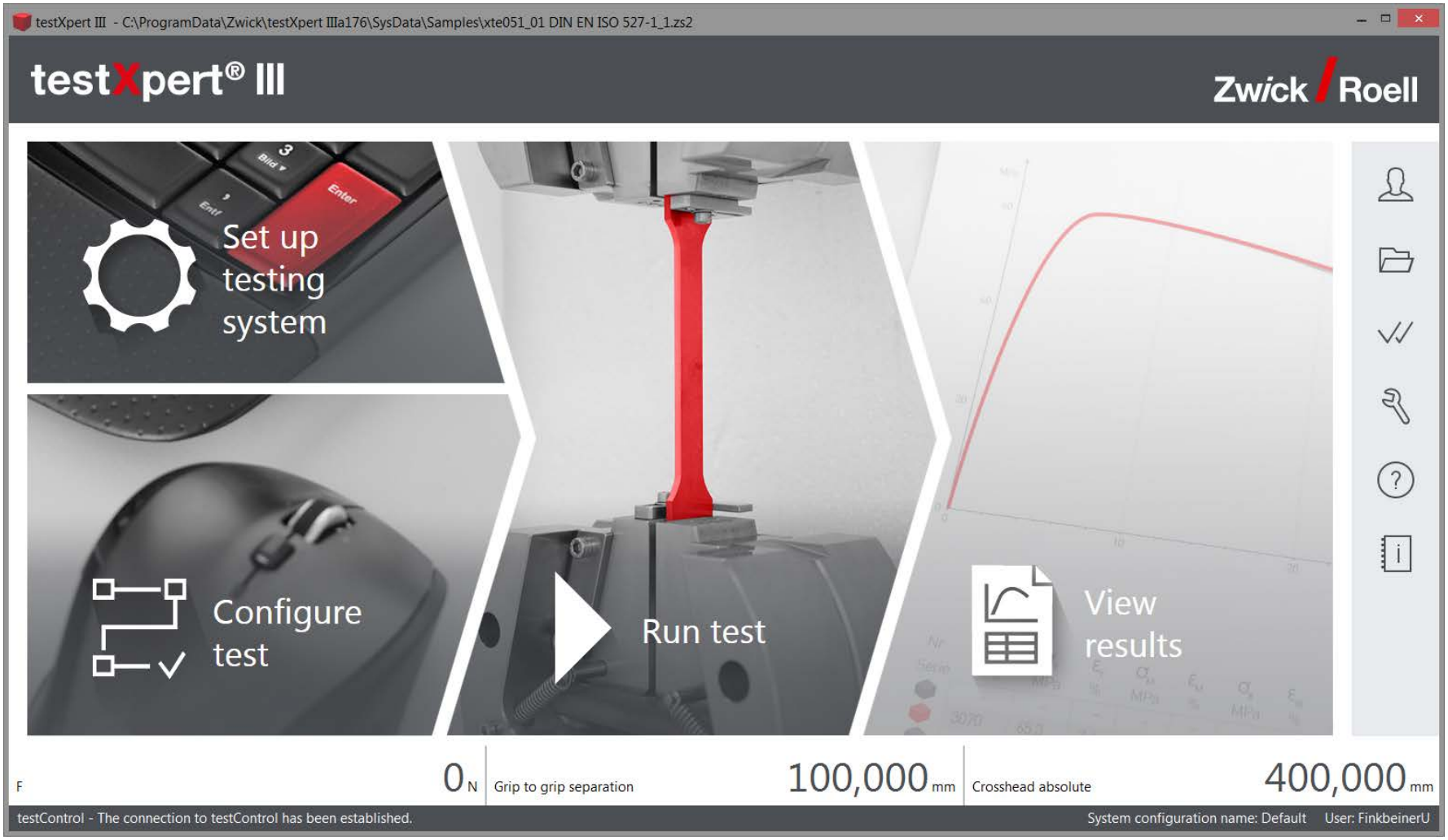
testXpert III is the result of close cooperation with software users in the materials testing industry and the experience from over 30,000 successful testXpert installations.

- Standardized user concept for all applications and test types
- A prepared standard test program for each test defined by a standard



- Perfect for various requirements, from production to research

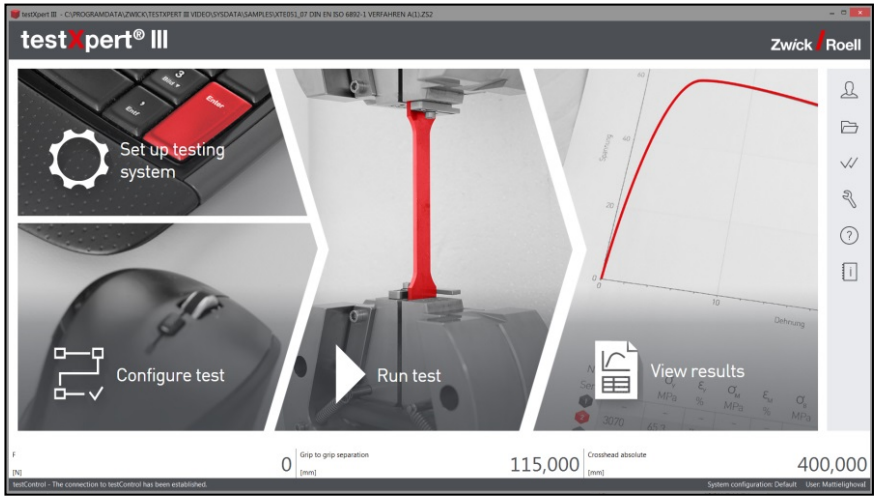



testXpert III - C:\ProgramData\Zwick\testXpert IIIa176\SysData\Samples\xte051_01 DIN EN ISO 527-1_1.zs2
testXpert® III
Zwick / Roell
Set up testing system
Configure test
Run test
View results
F
0 N
Grip to grip separation
100,000 mm
Crosshead absolute
400,000 mm
testControl - The connection to testControl has been established.
System configuration name: Default
User: FinkbeinerU

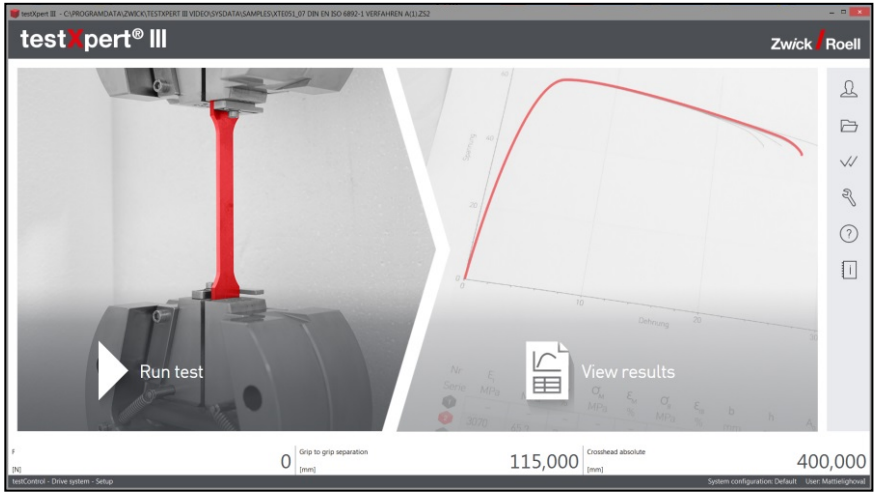
testXpert® III - User-Oriented Home Screen

Getting started is easy! From the very start, users can easily and intuitively navigate testXpert III.

- In testXpert III, all test-relevant settings are logically grouped and kept separate from general system settings.
- testXpert III adapts to user management requirements, providing only those actions relevant to the specific user role.



Administrator

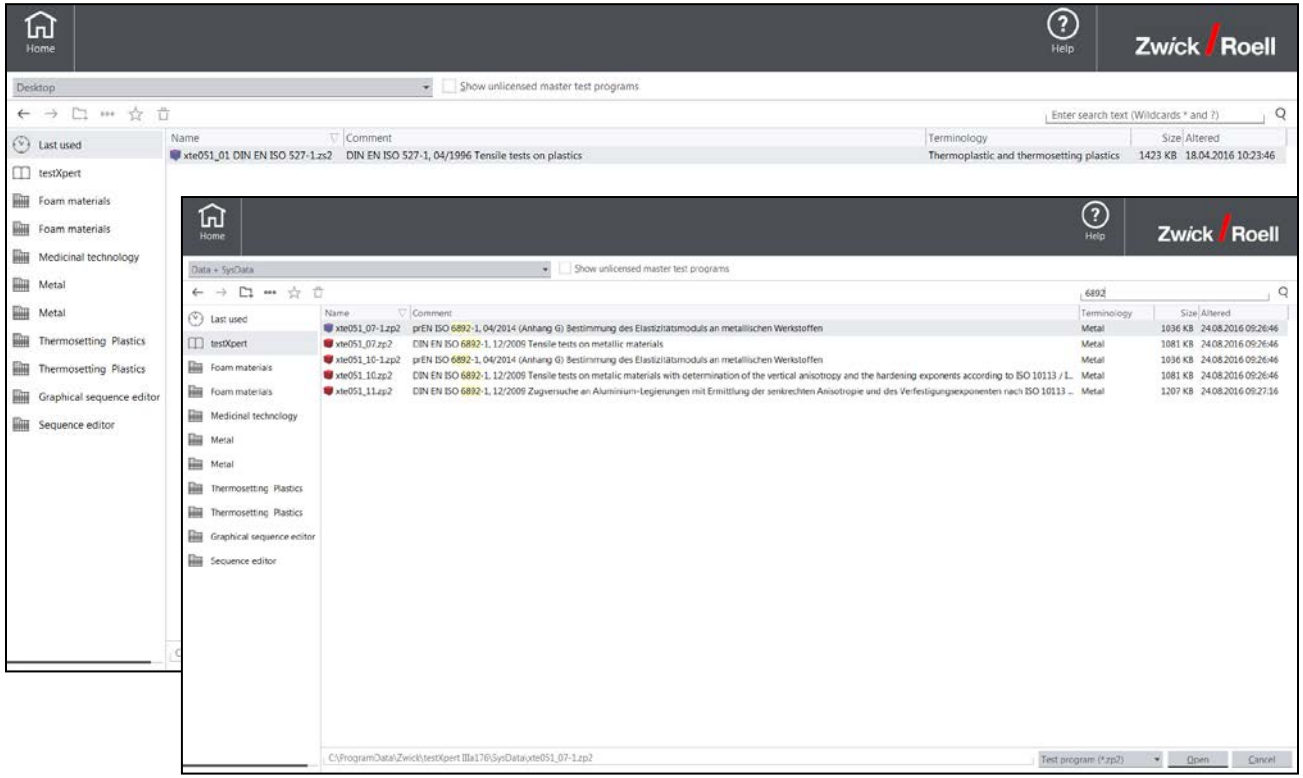


Tester

testXpert® III - File Open Dialog

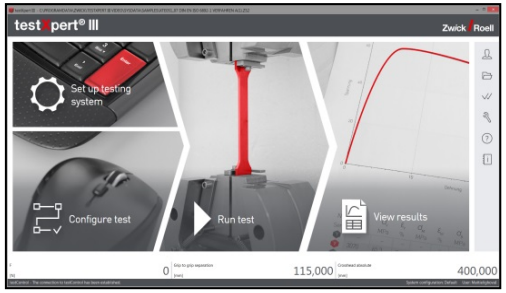
The File Open Dialog ensures you find your test program quickly and sort them as you wish.

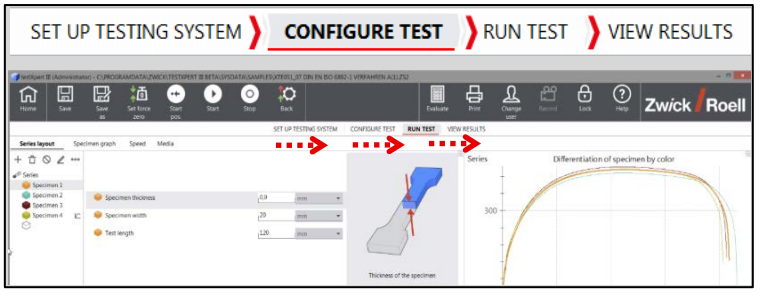
- Search function
- Favourites
- Standardized Folder Selection
- Folder Navigation
- Industry Selection



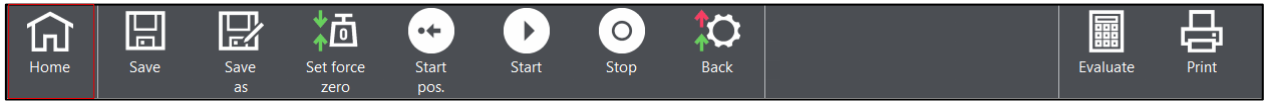
testXpert III is a workflow-based software that keeps training time to a minimum and makes testing efficient and reliable.

- Clear and logically structured workflow

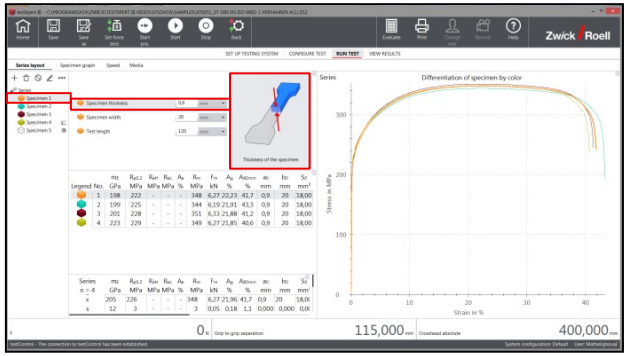


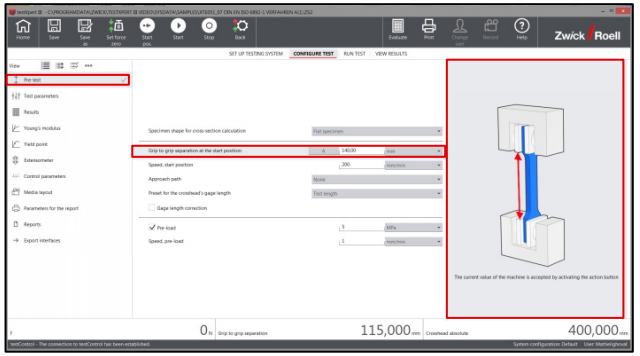


- Expressive icons



- Visual connection of all related information

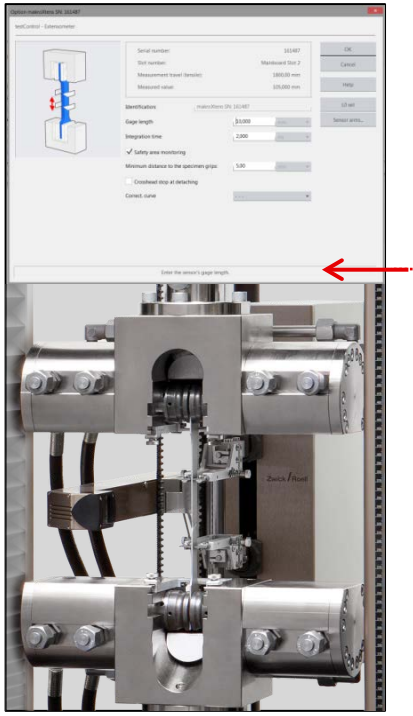




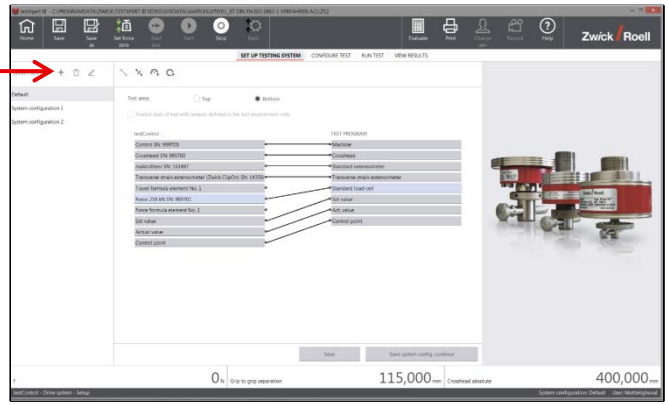
testXpert® III - System Configuration Builder

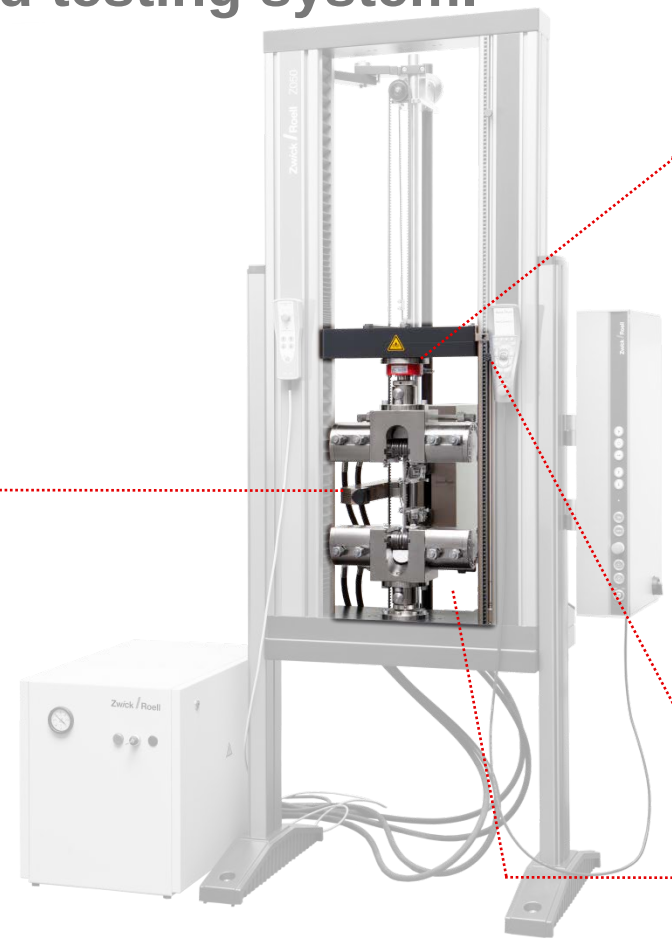
The unique System Configuration Builder makes it possible to define reproducible test conditions and offers maximum safety for the user and testing system.

Safety and tool distance



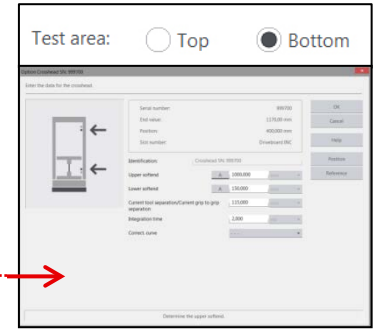
Select sensor limits





Crosshead position

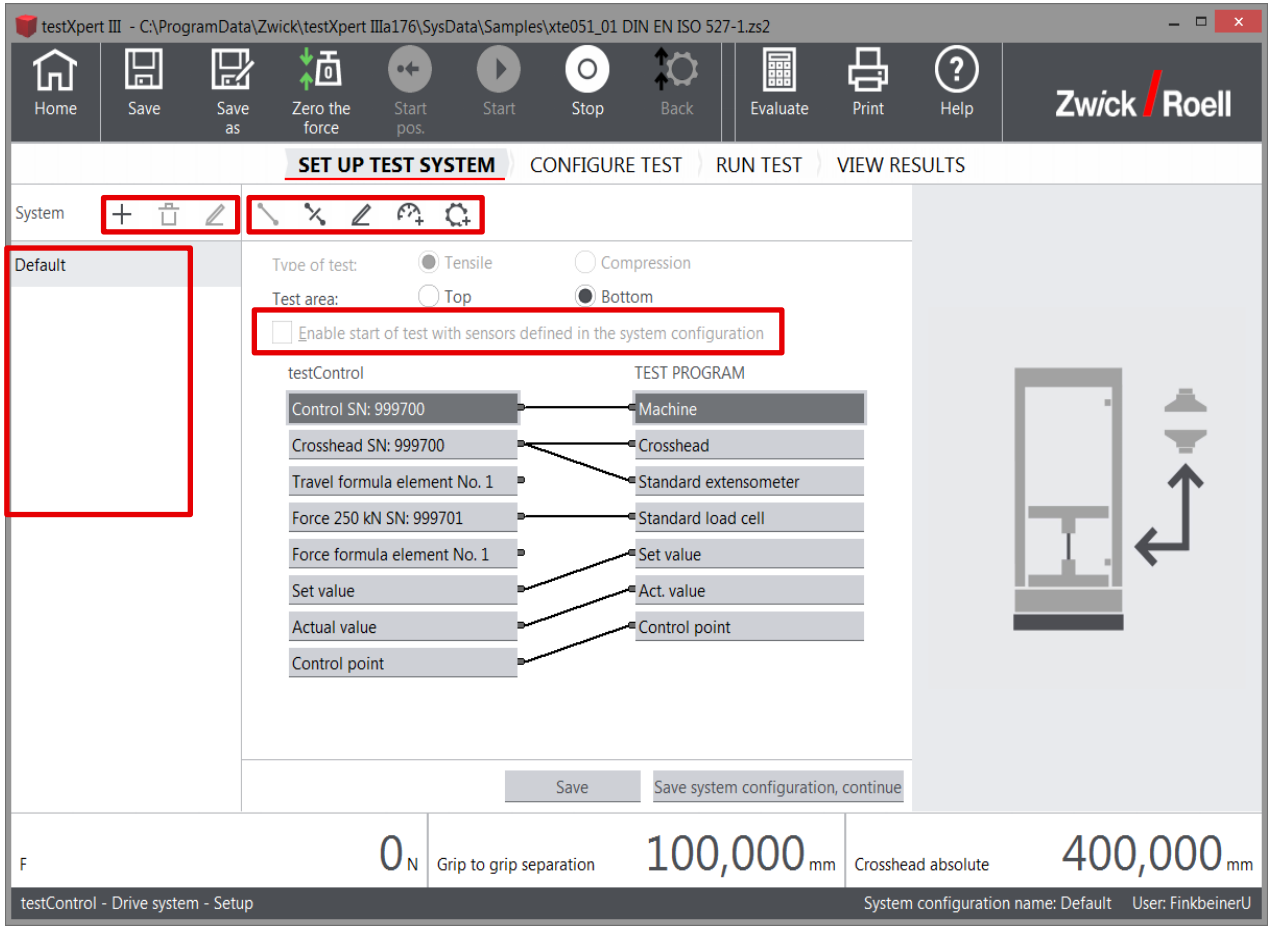
Test area



testXpert® III - Workflow in Detail

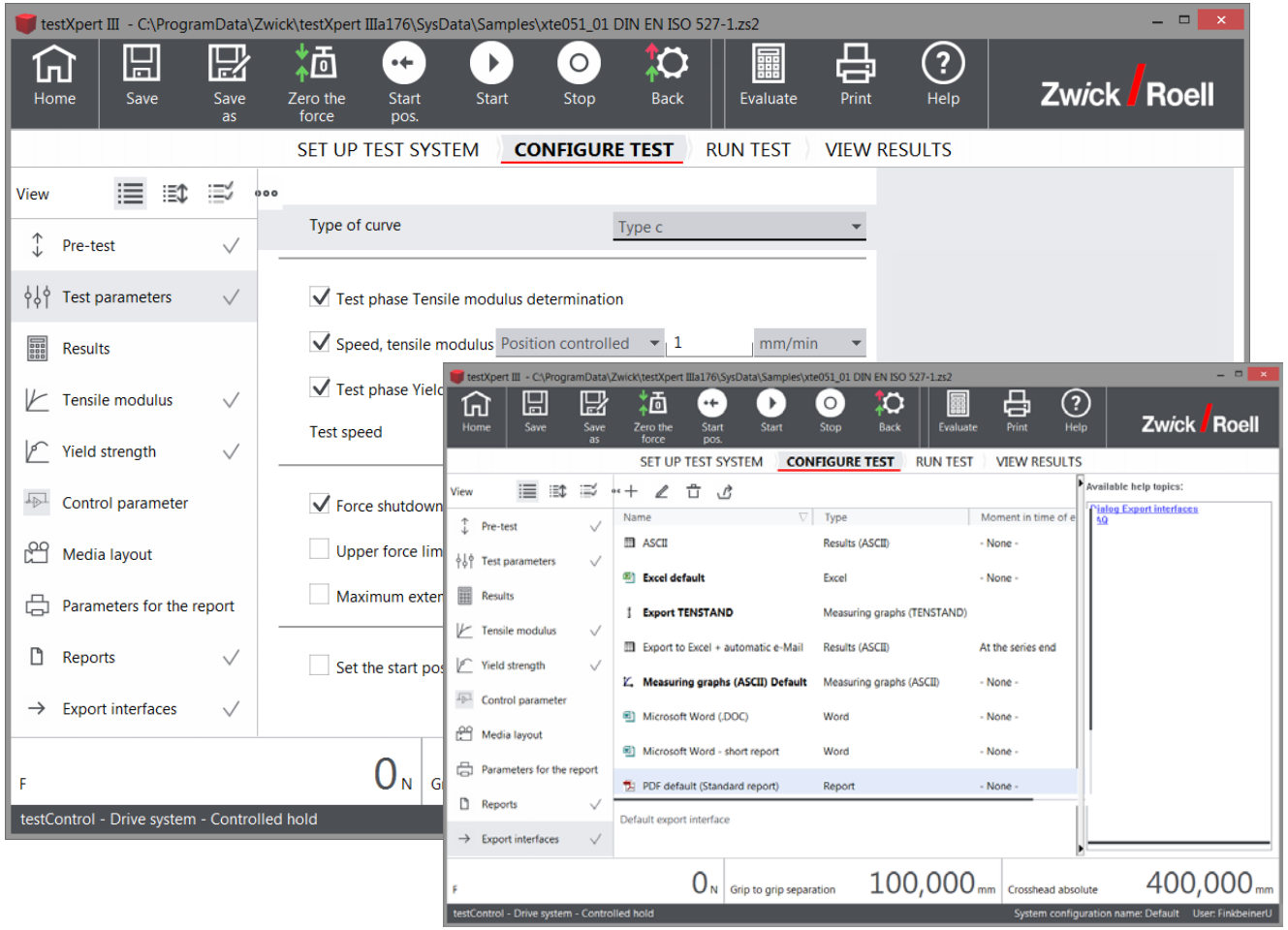
The workflow begins with the configuration of the test system.

- Overview of existing test configurations
- Easy creation of test configurations
- Function „Sensor Monitoring“



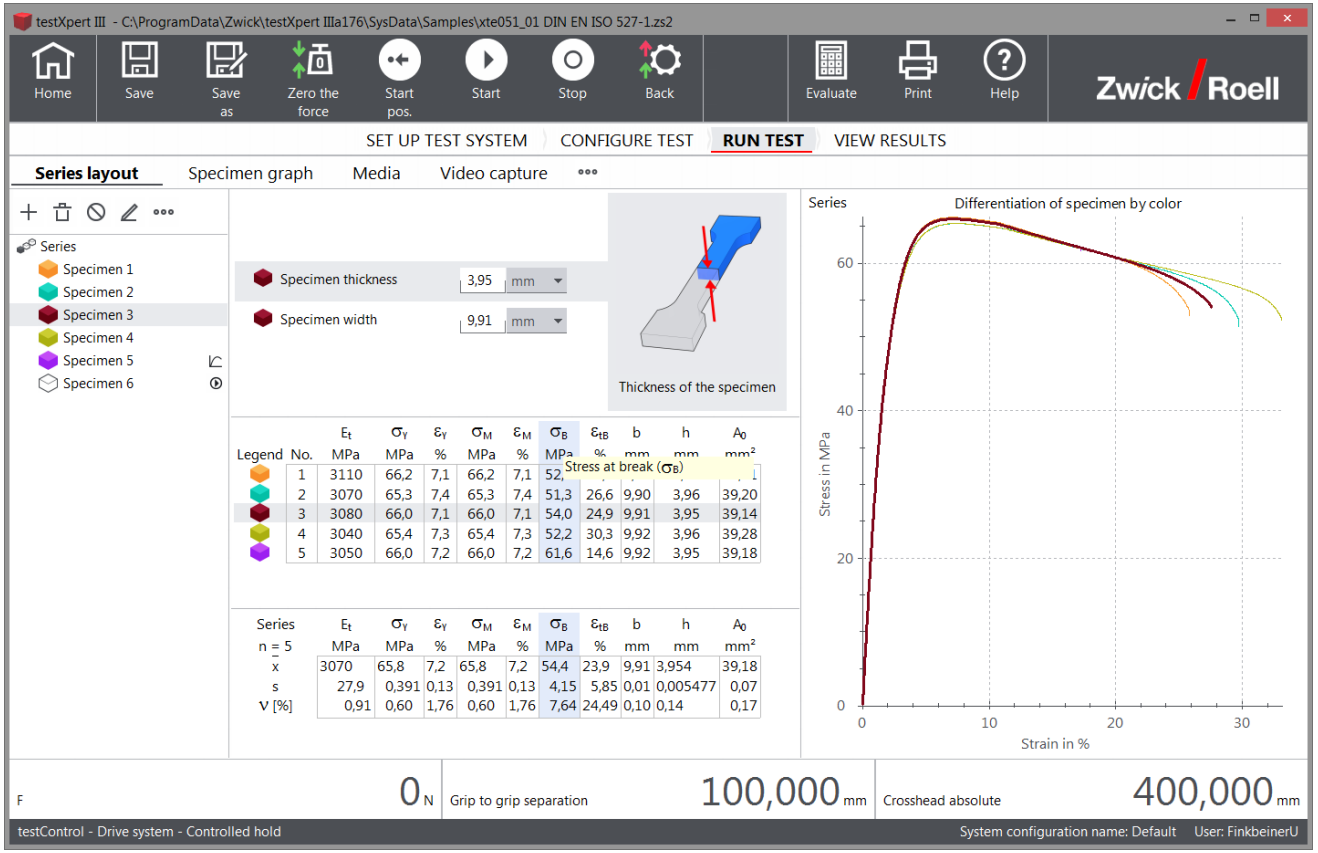
Many settings for the test procedure can be configured in „Configure Test“.

- Standard and User-Specific Assistant
- Test Sequence
- Results
- Report
- Export



With „Run Test“ you will see both a live view of the currently running test and previously recorded results.

- Ergonomic layout
- Colour coding of samples
- Highlighting of results in table
- Series layout
- Descriptive graphics
- Media and Video Capture

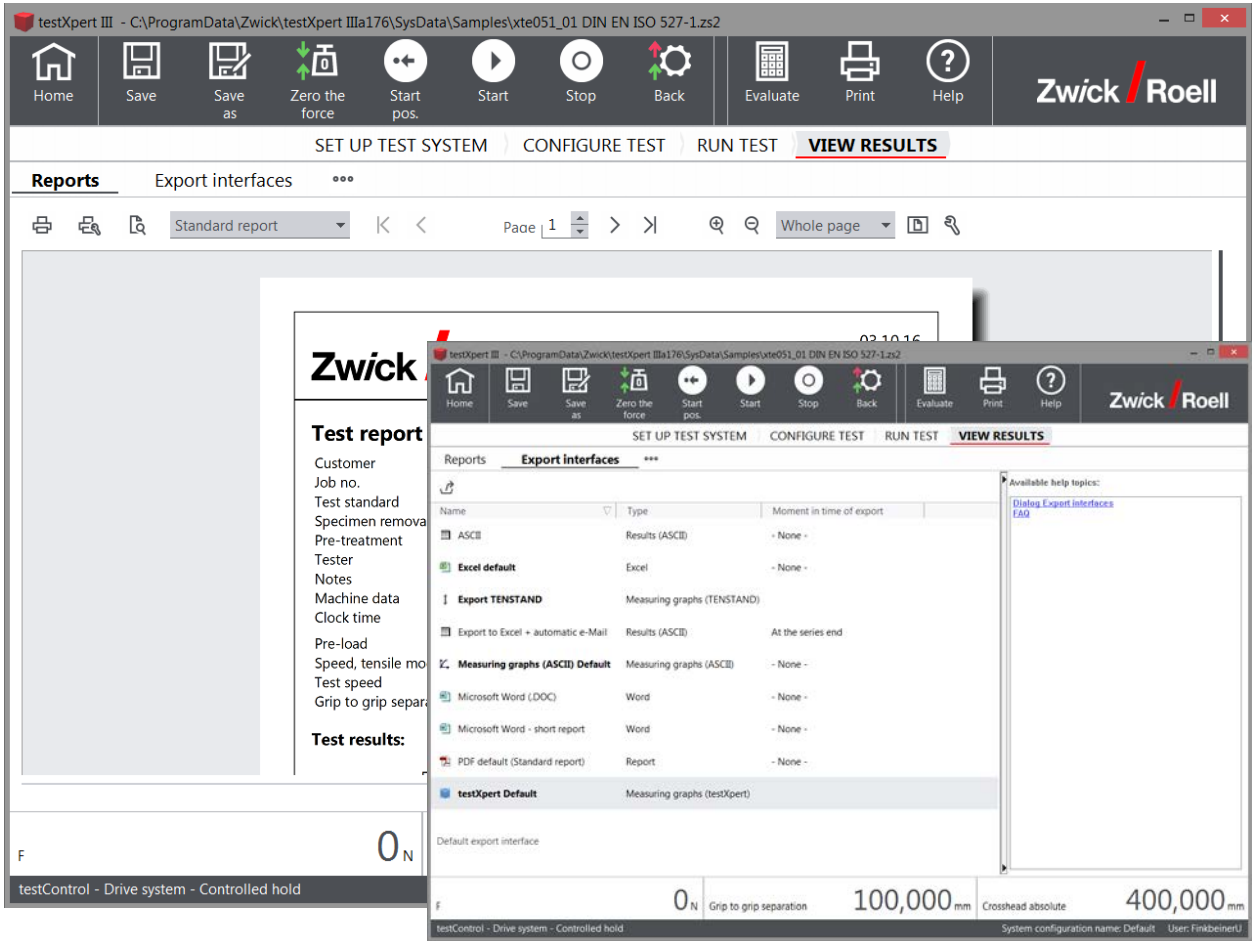


Legend	No.	Et MPa	σY MPa	εY %	σM MPa	εM %	σB MPa	εtB %	b mm	h mm	A0 mm²
	1	3110	66,2	7,1	66,2	7,1	52				
	2	3070	65,3	7,4	65,3	7,4	51,3	26,6	9,90	3,96	39,20
	3	3080	66,0	7,1	66,0	7,1	54,0	24,9	9,91	3,95	39,14
	4	3040	65,4	7,3	65,4	7,3	52,2	30,3	9,92	3,96	39,28
	5	3050	66,0	7,2	66,0	7,2	61,6	14,6	9,92	3,95	39,18

Series n = 5	Et MPa	σY MPa	εY %	σM MPa	εM %	σB MPa	εtB %	b mm	h mm	A0 mm²
x	3070	65,8	7,2	65,8	7,2	54,4	23,9	9,91	3,954	39,18
s	27,9	0,391	0,13	0,391	0,13	4,15	5,85	0,01	0,005477	0,07
V [%]	0,91	0,60	1,76	0,60	1,76	7,64	24,49	0,10	0,14	0,17

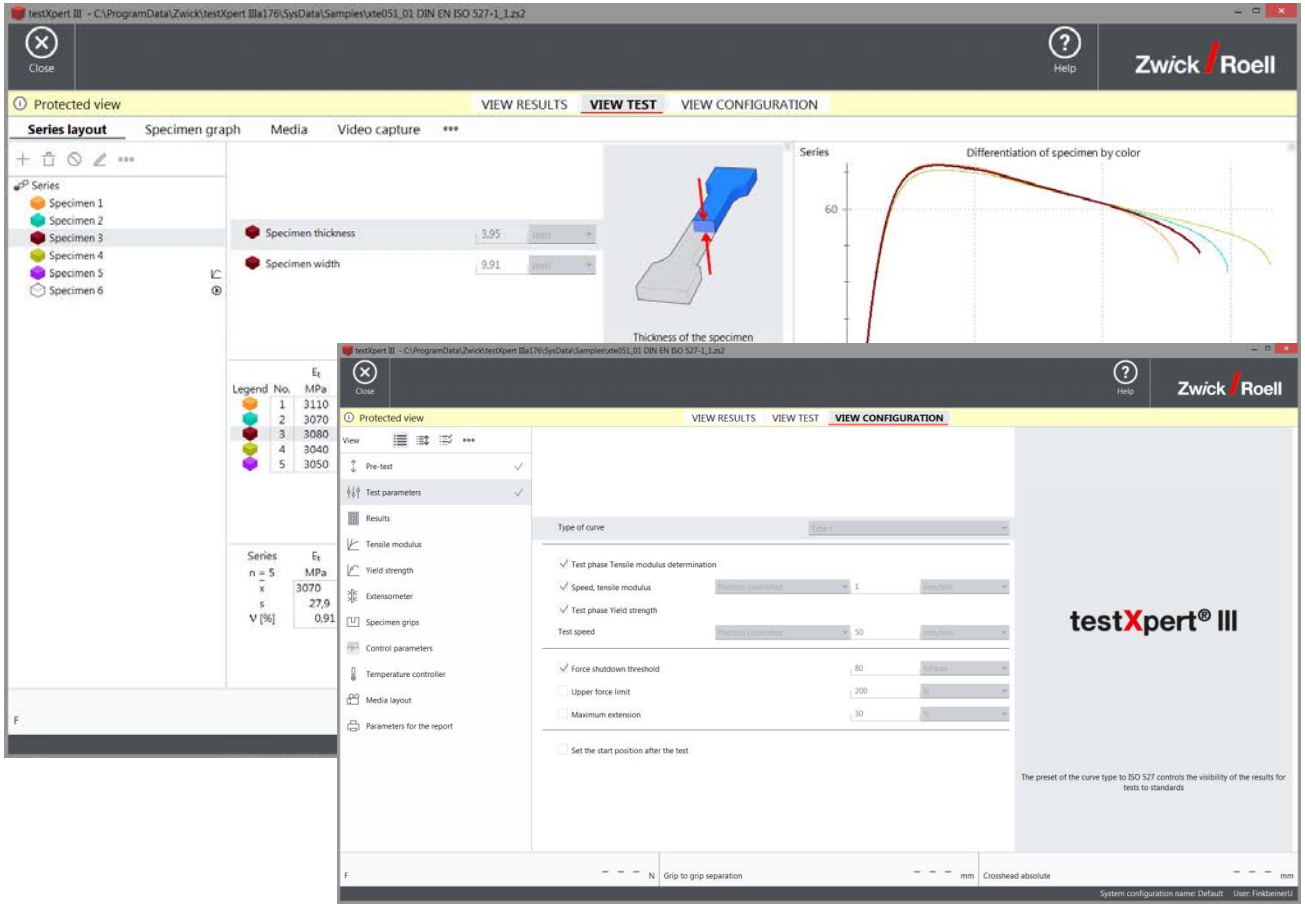
Multiple possibilities to process recorded results are offered in „View Results“.

- Report preview
- Report printing
- Export interfaces
  - Database
  - ASCII
  - Word
  - Excel
  - PDF



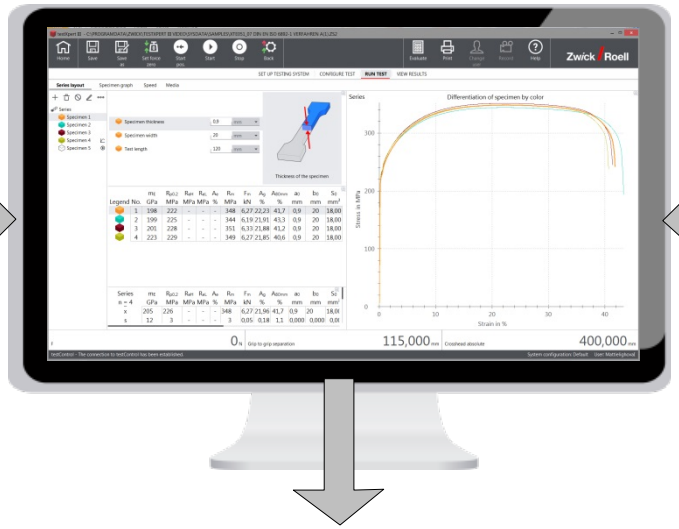
Review previously recorded results in a protected view directly from the home screen.

- Protected view
- Report preview
- Verification of settings and parameters
- Overview of recorded data, curves and results



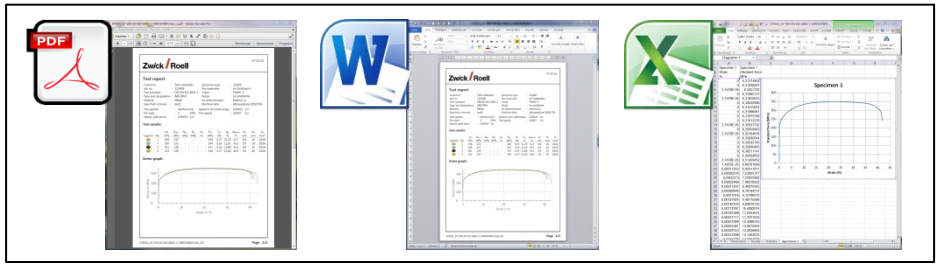
testXpert III reduces input errors, increases efficiency in the test lab, and communicates with every IT system through automated importing and exporting.

Database connections



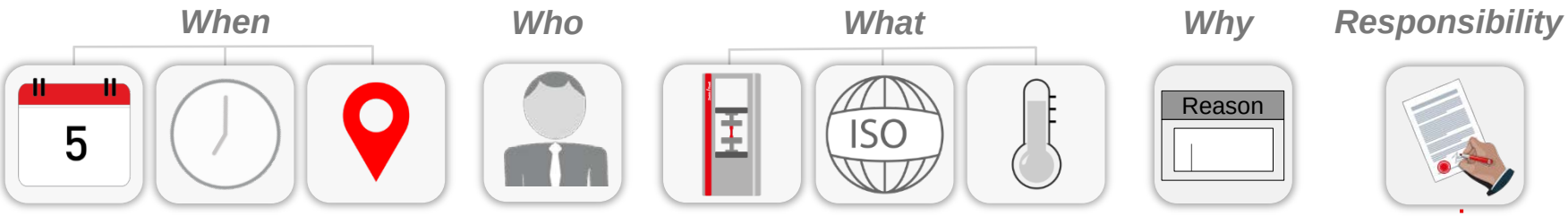
External devices

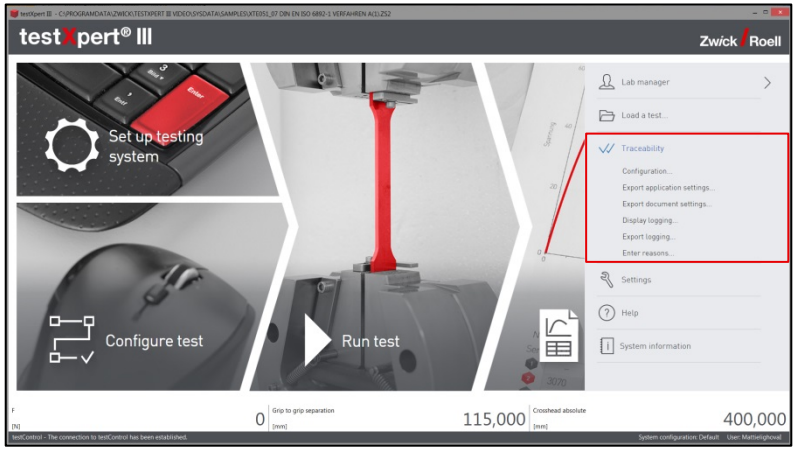
Test reports & standardized reports

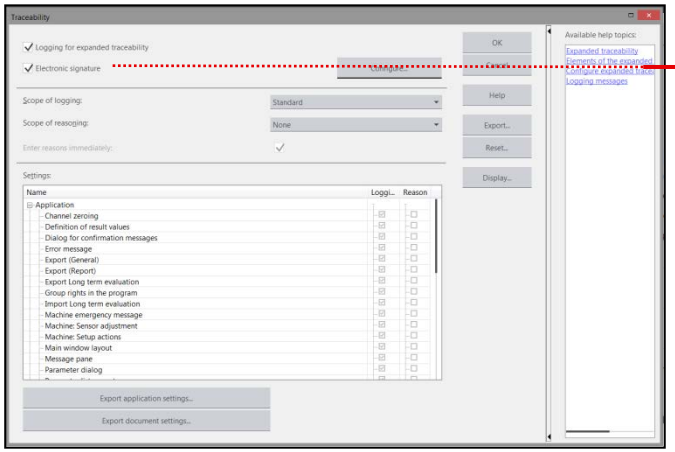


testXpert III provides traceable results that cannot be manipulated.

- testXpert III logs all test- and system-relevant actions and settings.

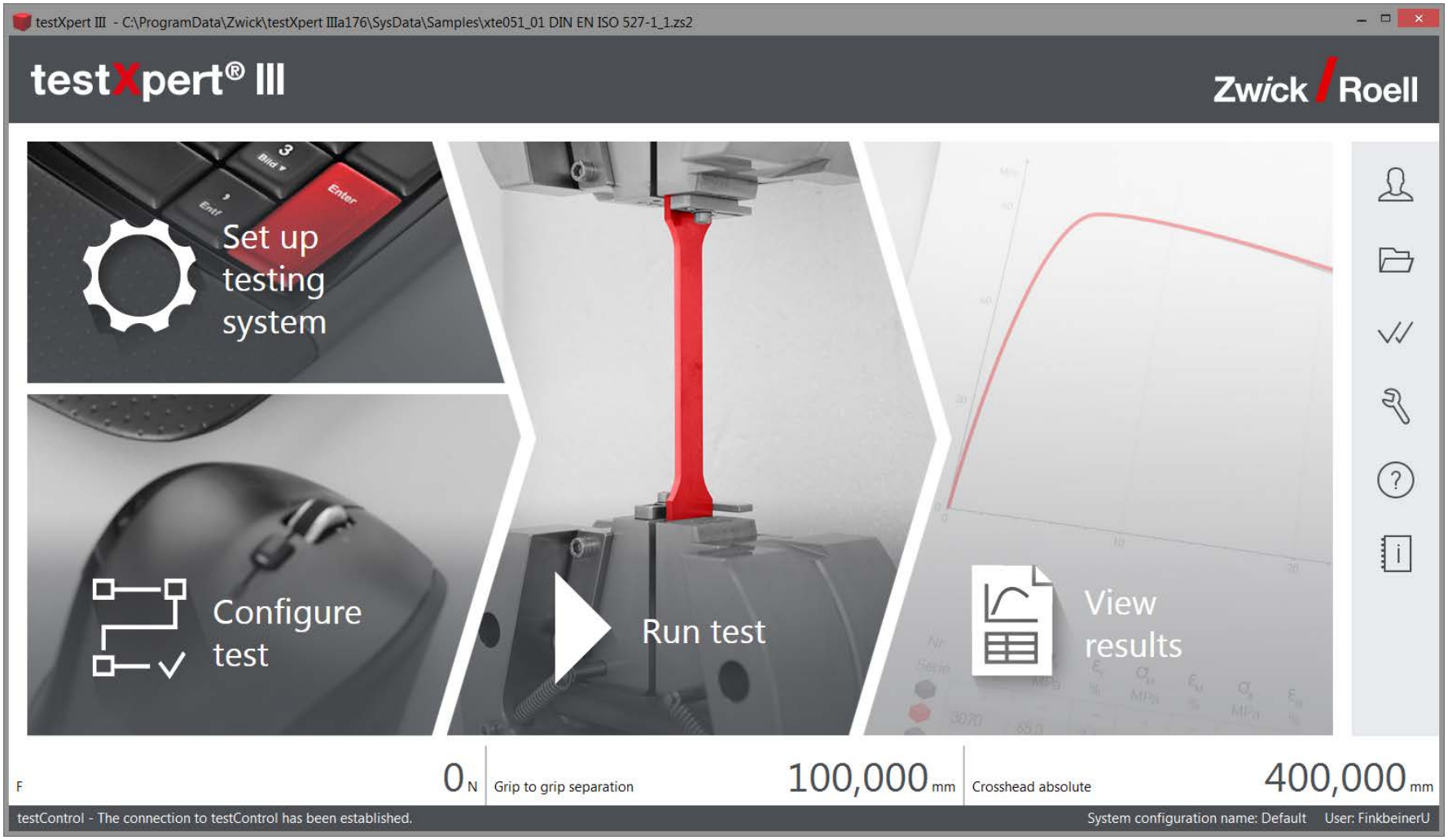






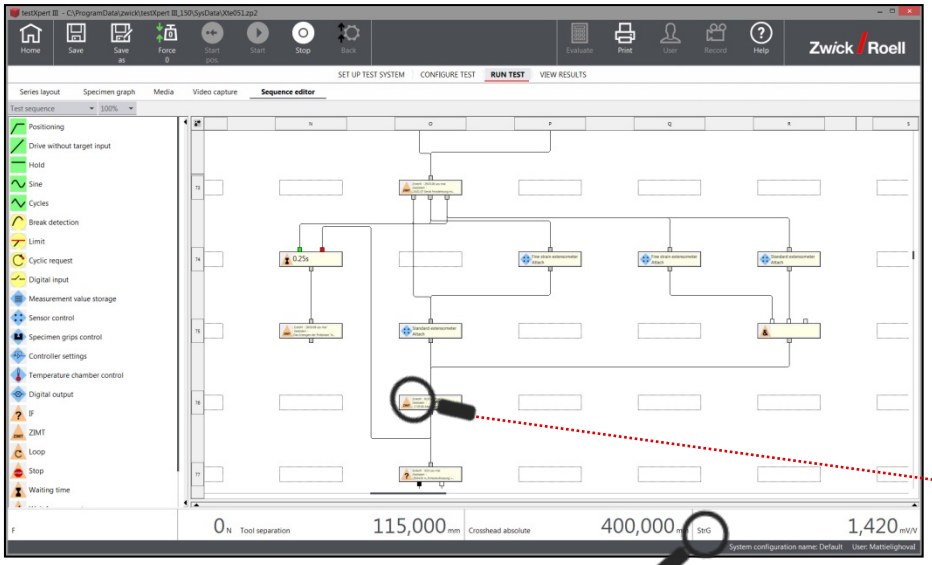
Electronic signature

testXpert® III - Live



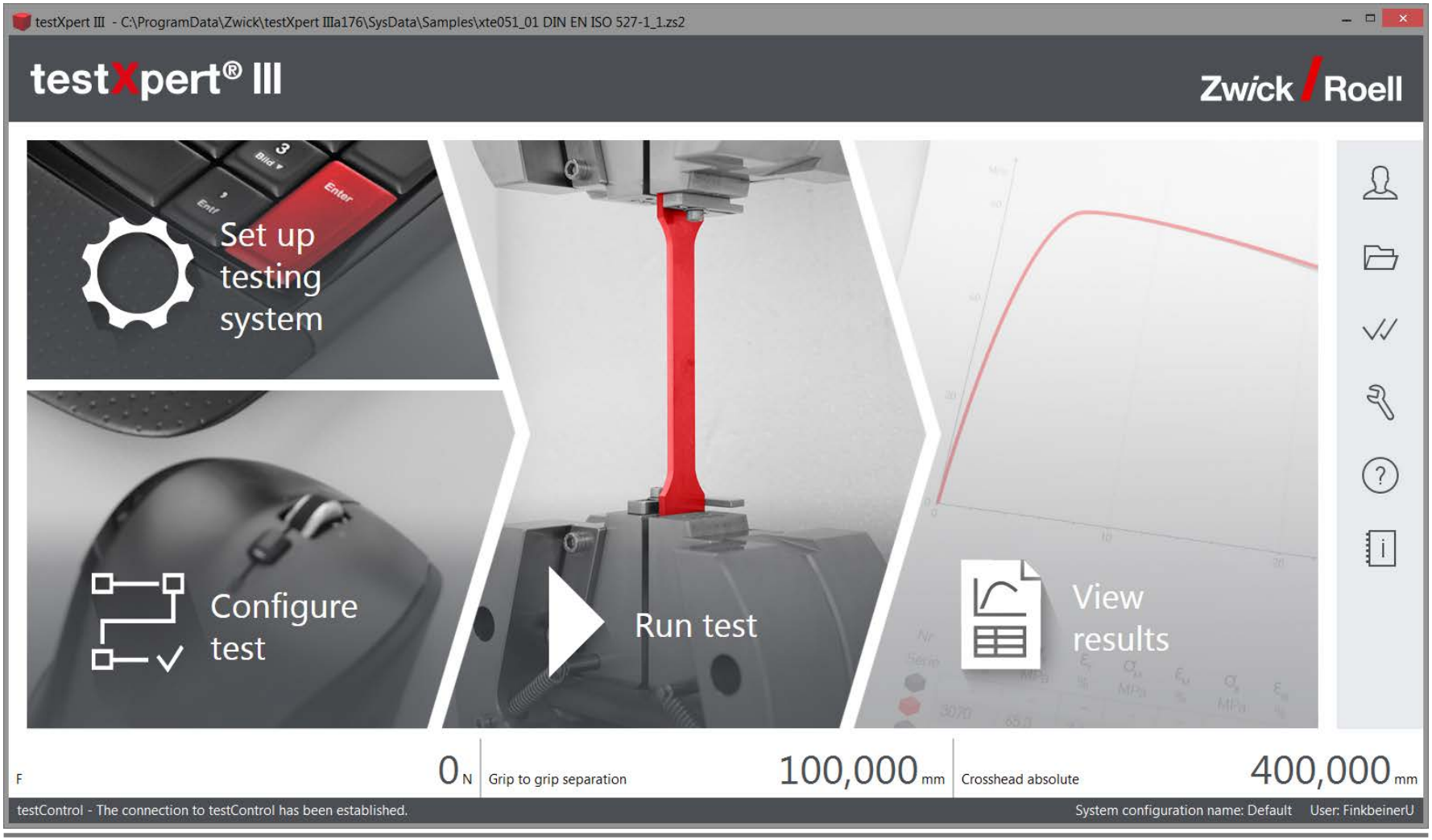
Unique test and evaluation requirements are possible with testXpert III: we get started where the others leave off!

- Straightforward graphical test sequence programming



Versatile sensor interfaces

- Multi-faceted and open results calculation
- Time-synchronized video recording
- Extensive control options (for example, true strain rates)

ZIMT—the macro programming language

What should you bring back with you?