

Benefit from the data analysis of the future

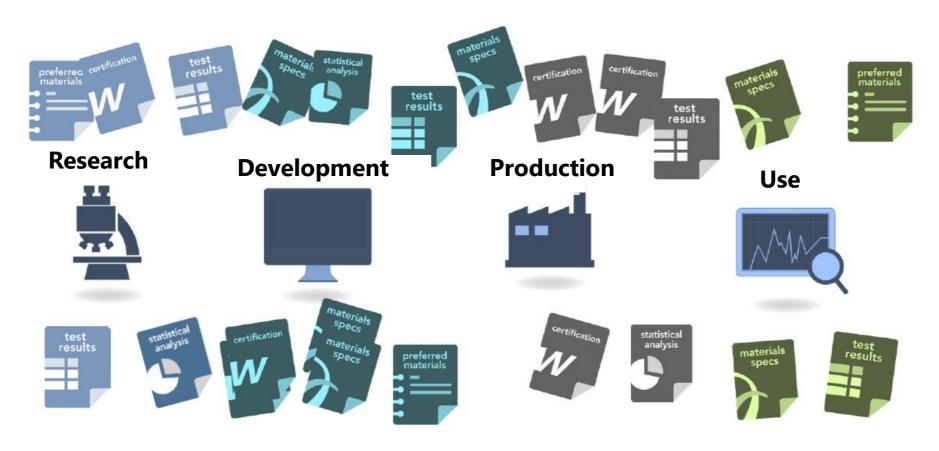
testXpo 2023 Isabell Mang, Valentin Herter, Daniel Kreutzer



- 1. What is testXpert Analytics?
- 2. Test Data Management
- 3. Trend Analysis
- 4. Fatigue Data Evaluation
- 5. Condition Monitoring
- 6. Further Information



In many companies, test data are not stored digitally at all or only partially.





Digital Products - Overview

ZwickRoell Digital Products

Testing Software



testXpert®

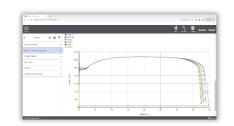
testXpert Analytics



Condition Monitoring



Trend Analysis



Test Data Management



Fatigue Data Evaluation

Digital Services



Customer Portal



Remote Service

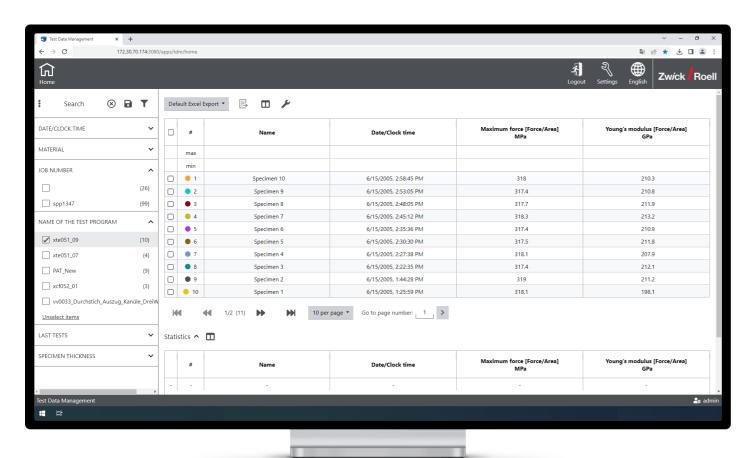


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Test Data Management

Test Data Management provides comprehensive, crossseries analysis.



 Easy and secure access to all test data and results for long-term transparency and quick quality control.



Test Data Management

Test Data Management creates the basis for intelligent analyses of the future.

Flexible application

 Easy and secure access to all test data and results for long term transparency.

Time saving

 Efficiently generate customized test reports for internal and external quality control.

Reduced workload

 Quickly perform quality control and analyze quality deviations at a glance.

Future-proof data storage.

 All test and machine data of ZwickRoell machines and devices are stored in a secure and central database (local or network).

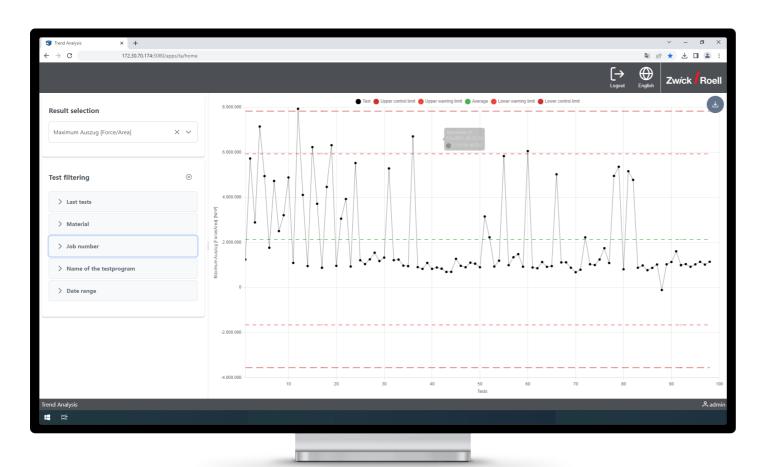


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Trend Analysis

With the trend analysis, long-term analyses of individual characteristic values can be created.



 Quick display and evaluation of quality consistency for early detection of deviations and acceleration of product release.



Trend Analysis

Quick visualization of long-term analyses to support cost-effective production and minimize rejects.

Time saving

 Accelerate your product releases through a clear visual presentation of individually selected product characteristics.

Easy production control

 Quick SPC like presentation of the quality consistency of your products over time to detect deviations at an early stage.

Cost saving

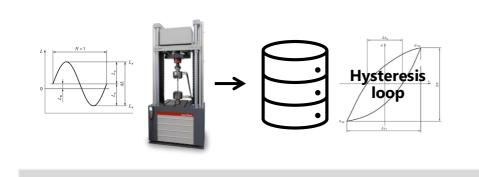
 With standardized quality control charts, you optimize your inspection efforts in incoming goods.

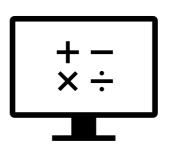


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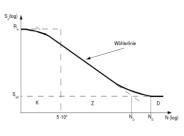
In some cases, the result of a fatigue test itself is not sufficient. You may need to calculate a statistic.





01

02



Perform numerous fatigue tests

 Obtain sufficient data for the statistical analysis

Evaluation of test data

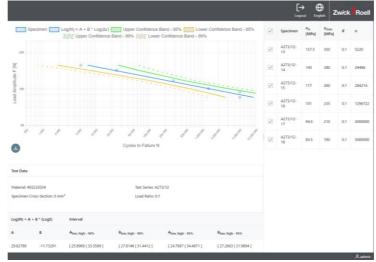
- Create calculation template yourself
- Assign evaluation externally
- Prepare data manually for a separate, non-integrated evaluation tool

→ testXpert Analytics



Fatigue Data Evaluation is a software add-on for S-N curves with seamless access to the test data.





ASTM E739 e.g. composites, implants, ...

- The data is transferred seamlessly from testXpert.
- **Filtering** for test series to be evaluated.
- The specimens are visible parallel to the curve and can be selected flexibly.
- Export of the S-N curve as PNG

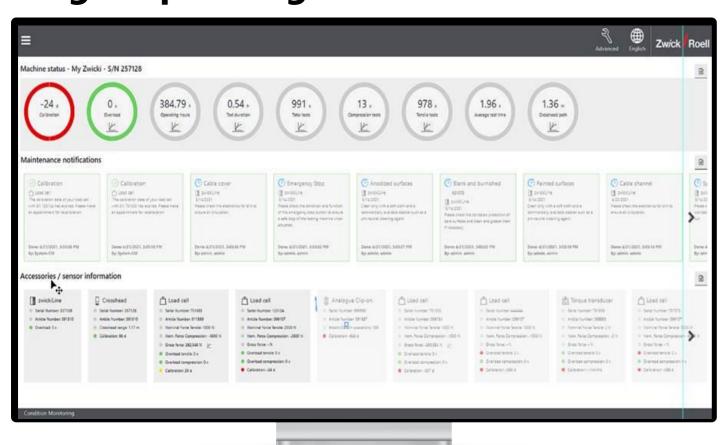


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Condition Monitoring

Thanks to condition monitoring, you can ensure that your plants and machines always run optimally. This means lower costs and longer operating times.



- Simple condition monitoring of machines and plants from all over the world.
- Immediate access to important information and to planned maintenance and servicing.

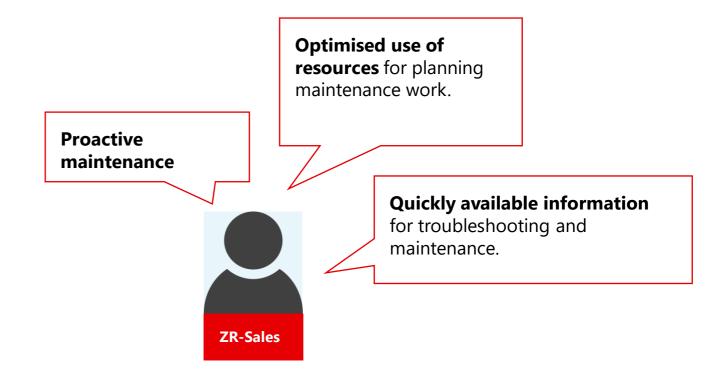


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Condition monitoring - Advantages

Condition monitoring shows the current condition of the testing machine, sensors and accessories. The integrated maintenance manual makes maintenance plannable and comprehensible.

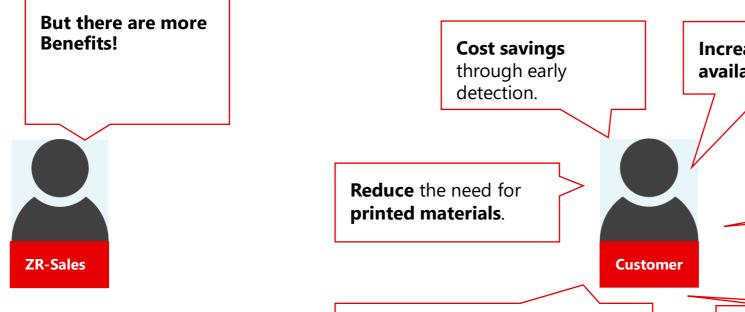


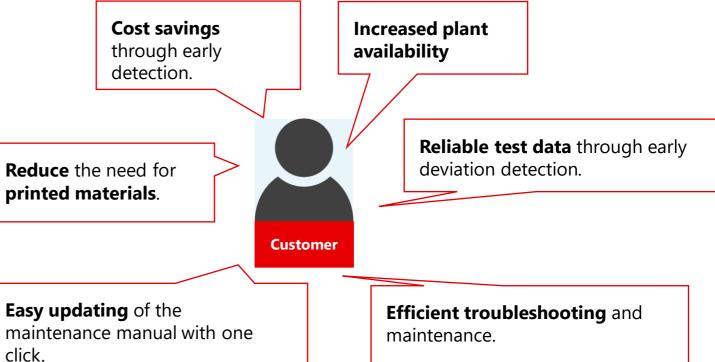




Condition monitoring - Benefits

The use of condition monitoring leads to an improvement in the overall efficiency of the testing machine.

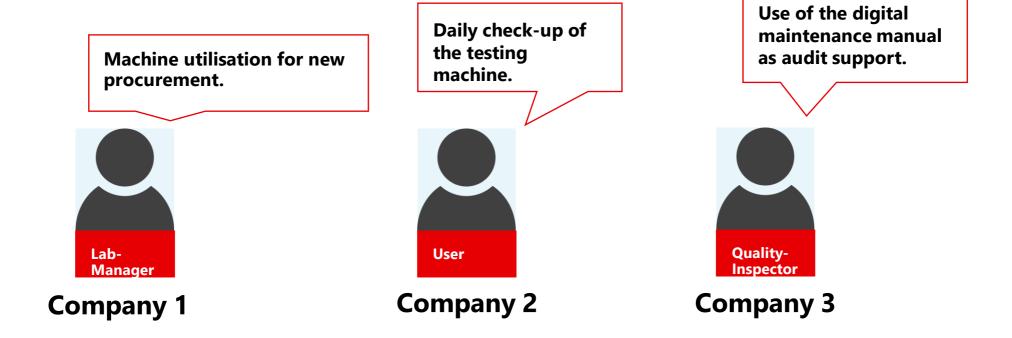






Condition monitoring - Examples

Various customers have recognised the value of condition monitoring and use it to make their daily work easier.





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More information on our main page

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- Fatigue Data Evaluation
- Test Data Management
- Trend Analysis



