

### Product Information

#### Modernization Package for Servohydraulic Dynamic Materials Testing Machines



Zwick REL 2021 modernized



Zwick HydroWin 96XX Electronic

#### Modernization maintains value and goes easy on your budget

The modernization of a testing system can be an economical alternative to a new purchase, especially for machines with high nominal force, special load frames, or complex peripheral equipment.

Modernization packages for your application can return materials testing machines to state-of-the-art, independent of the make, model, or age.

The decision between a new purchase and modernization is primarily dependent on the value and technical condition of the remaining machine components. Naturally your future test requirements also play an important role.

A cost comparison should also include the already achieved integration of the existing system into the present testing process. In many cases, the practicality of the previous procedure and the many details optimized over years don't become obvious until a new solution is implemented.

These aspects are also an important component in the economic analysis of a modernization.

Subsequent to a modernization, a secured spare parts supply for modernized components as well as the complete Zwick accessories selection, such as extensometers or specimen grips, but especially the newest version of the *testXpert*® testing software are available. The intelligent and reliable test software *testXpert*® is used for all Zwick products, reducing your training effort significantly.

#### Benefits / Features

- Secure replacement parts supply
- Renewed long term service security
- Retaining of costly components such as extensometers and specimen grip systems
- Allows the validation of the testing machines in accordance with the latest quality standards
- Use of the intelligent testing software *testXpert*®
- Integration of the testing machine in new data processing worlds

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#### ZMART Zwick Modernization and Retrofit Technology

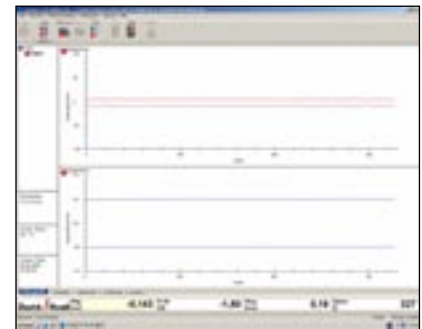
Dynamic servohydraulic testing machines of various makes and models are returned to state-of-the-art technology with the Hydrowin 96XX modernization package.

The modernization packages include the following components:

- Digital measurement and control electronics
- *testXpert*® test software
- Conversion kits for existing components such as load cells and extensometers
- Optional: new hydraulic power pack

#### Special Characteristics or Services

	96XX
<b>Applications</b>	
• Servohydraulic Materials Testing Machines	•
• Applicable for up to 4 hydraulic testing cylinders	•
<b>Measurement Data Logging and Display</b>	
• Test Load (Static and Dynamic)	•
• Piston Travel	•
• Sample Rate 10 kHz	•
• Analog Extensometer (Inductive)	•
• Analog Extensometer (DMS-System)	•
• Simultaneously Utilizable Sensor Channels	•
• AC / DC Signals	•
• BNC-Input for External Signals	•
<b>Measurement Data Storage and Processing</b>	
• DSP-Technology from a 32 Bit Resolution A/D Converter	19
• DSP Technology for a PID-Control	•
• Hydraulic System Interface	•
• Internal Signal Processing	•
• Software-Integration	•
• Automatic Sensor Recognition	•
• Derived Channels	•
<b>Test Process and Speed Control</b>	
• Peak Value Control	•
• Differential Pressure Stabilization	on request
<b>Monitoring of Safety Limits</b>	
• Two-Step Monitoring System (Control)	•
• Adjustable Offset	•



*testXpert*® Dynamic



New hydraulic power pack