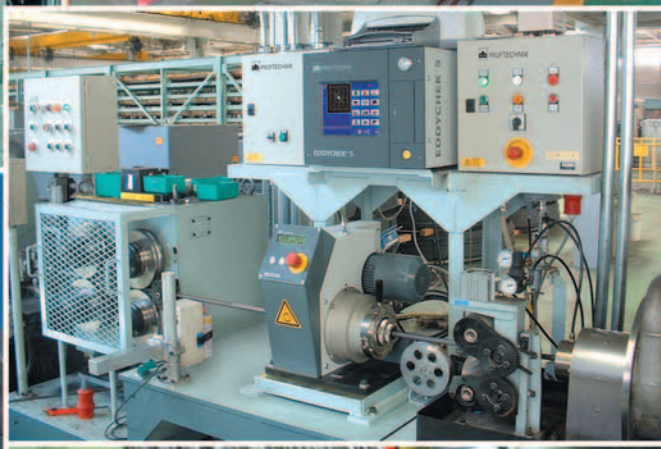
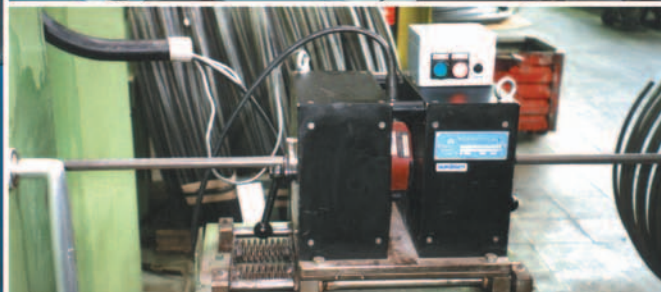
PRÜFTECHNIK

EDDYTREND

Search, visualize and analyze eddy current inspection data





- Digital recorder
- Search engine
- Analysis tool

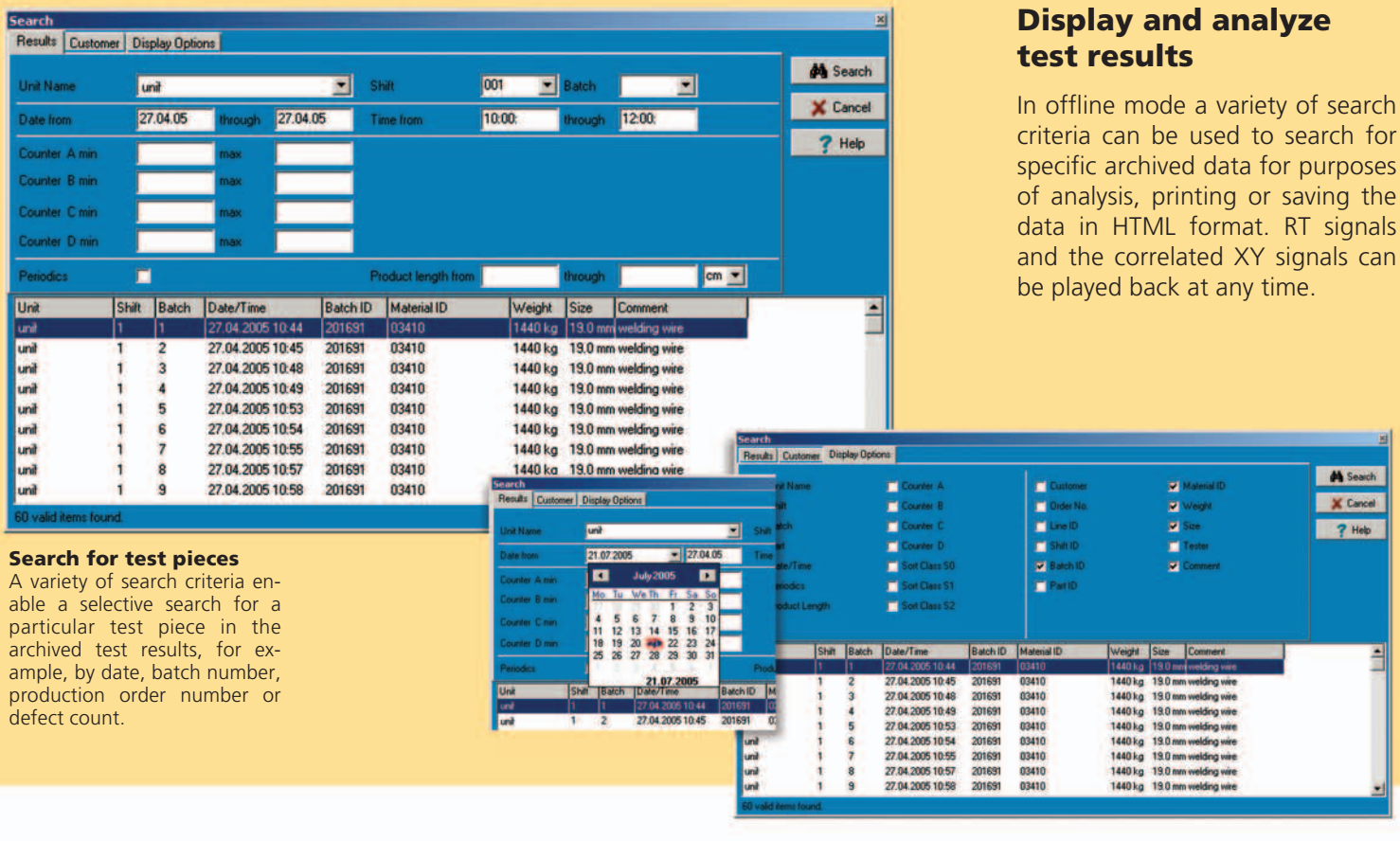
Monitor production online ...

EDDYTREND is a new software for the visualization and analysis of the RT and XY signals recorded by the EDDYCHEK® 5 tester during eddy current inspection. It thus serves as a paperless digital recorder.

Recognize trends

The EDDYTREND online display is ideal for monitoring the production process, showing the current test piece at the bottom of the window. The signals of the previous test pieces from the same production line appear above it, immediately indicating any changes in the process. Different production lines are displayed in separate windows, providing an overview of the entire production process.

Analyze test results offline ...



Search for test pieces
A variety of search criteria enable a selective search for a particular test piece in the archived test results, for example, by date, batch number, production order number or defect count.

Display and analyze test results

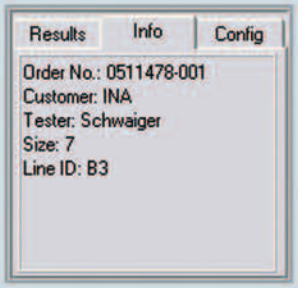
In offline mode a variety of search criteria can be used to search for specific archived data for purposes of analysis, printing or saving the data in HTML format. RT signals and the correlated XY signals can be played back at any time.

View test info ...

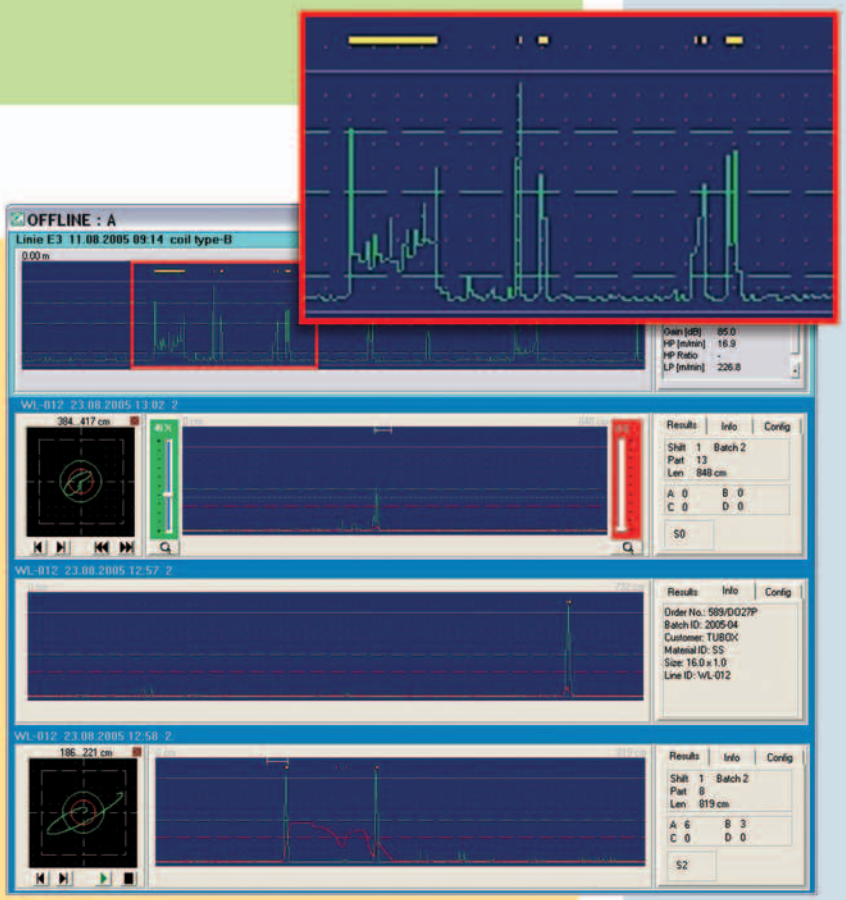
Current test piece

The current inspection is displayed in real time at the bottom of the window. When the end of the test piece is reached, recording moves up one level.

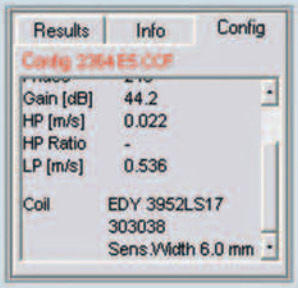
The shift, batch, test piece length and number of parts are displayed as well as the number of detected defects and sorting classes. What information actually appears depends on the particular application.



Customer-specific information on the test piece (entered as comments) is displayed here.



Display test pieces
Up to four test pieces can be selected and displayed at once in a program window. For closer examination of individual sections, the area of interest can be marked and magnified.



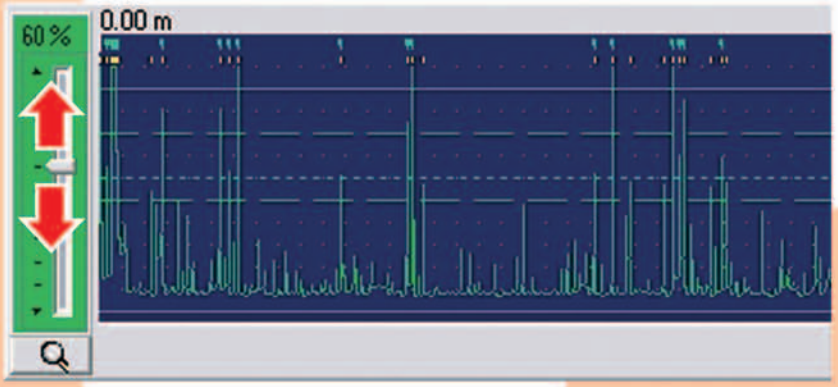
The selected parameters and the loaded configuration file are shown on this display. The file name appears in red if the actual parameter settings differ from those of the loaded file. The coil type and serial number of the Smart Sensor (EDY test coil with EPROM) are automatically displayed. This ensures complete documentation of the test results.

Analyze results

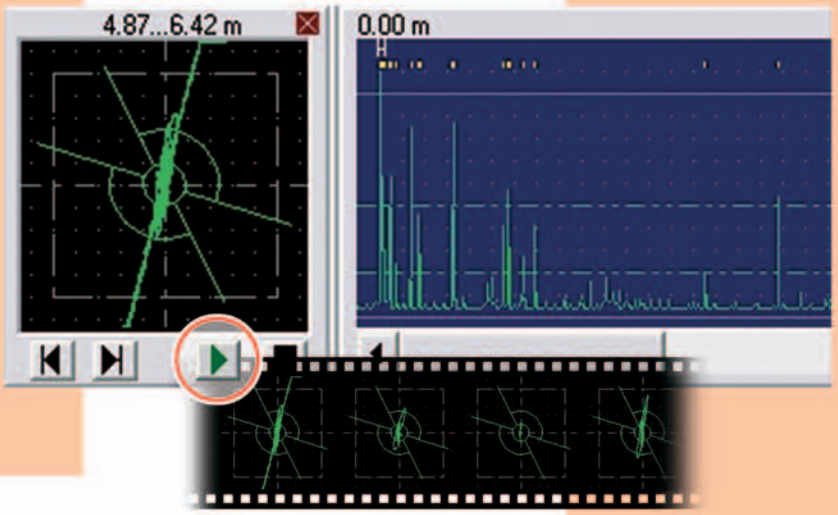
After inspection has finished, the analysis function allows test parameters to be optimized for even better defect detection. In addition, the XY signal display assists you in assessing the position that sector masks require to fit typical defect signals.

Level analysis
A new alarm threshold can be defined after testing to carry out a "What would happen if" analysis. Peaks that exceed this new level are indicated on the RT display in the respective channel color. The corresponding XY signal is also shown.

Defect search
For those RT signals that exceeded the threshold the corresponding XY signals can be selected at the click of a button. The indicator jumps from defect to defect showing the actual position on the test piece at the same time.



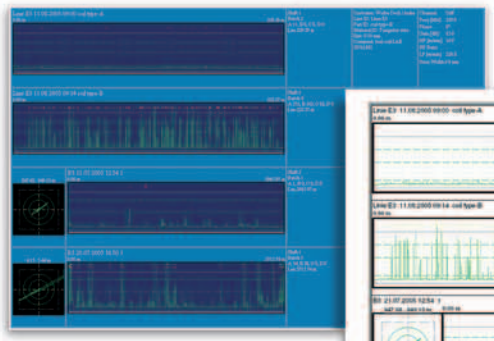
Signals above new threshold



Signals above old threshold

Saving and printout

You can print out up to four test pieces of your choice plus the XY signal of a specific defect (if selected) on one page. Alternatively, your selection can be saved as HTML for viewing in an Internet browser, useful for sending to customers, for example, or for integration into defect catalogs.



HTML format

Printout

Note: EDDYTREND runs under Windows® XP only.

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