

EDDYTREND

Search, visualize and analyze eddy current inspection data



Monitor production online ...



EDDYTREND is a versatile software for the visualization and analysis of the realtime and XY signals recorded by the EDDYCHEK[®] 5 tester during eddy current inspection. EDDYTREND thus also 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.

... and analyze test results offline

Dimension 27/04/05 Marked 10/03 Marked 12/03 Course A state Marked Marked Course Prediate Prediate <th>In off criteri specif of an data i nals a</th>	In off criteri specif of an data i nals a	
Course A see Main	specif of an data i nals a	
Counter Disk Basic Counter Disk Counter Disk Counter Disk Counter Disk Counter Disk Counter Disk Counter Disk Counter Disk Counter Disk Counter Disk Counter Disk Counter Disk Counter Disk Counter Disk Counter Disk Counter Disk Counter Disk Counter Disk Counter Disk Counter Disk Counter Disk Counter Disk Counter Disk Coun	of an data i nals a	
Contract Class Date Date <thdate< th=""> Date Date</thdate<>	data i nals a	
Concerne Dime Mail Comment Mail Mail <th>nals a</th>	nals a	
Image: State Date:/Time Batch: ID Material ID Velocity State Command Command Unit State ID 27.04.2005 10.44 201511 03410 1440 kg 150 mm welding wire unit 1 2 27.04.2005 10.45 201511 03410 1440 kg 150 mm welding wire unit 1 4 27.04.2005 10.45 201511 03410 1440 kg 190 mm welding wire unit 1 4 27.04.2005 10.45 201511 03410 1440 kg 190 mm welding wire unit 1 6 27.04.2005 10.55 201591 03410 1440 kg 190 mm welding wire unit 1 6 27.04.2005 10.55 201591 03410 1440 kg 190 mm welding wire unit 1 8 27.04.2005 10.55 201591 03410 1440 kg 190 mm welding wire unit 1 9 27.04.2005 10.55 201591 03410 1440 kg 190 mm welding wire unit		
Instantion Fermionic Fermionic Research Formation Fermionic Fermionic Research Formation Fermionic Fermionic Research Formation Fermionic Fermionic Research Formation Fermionic Research Formation <th cold="" formation<="" research="" th=""><th></th></th>	<th></th>	
Unit Strill Batch ID Material ID Velocity Star Command 1 2 27.04.2005 10.44 201631 03410 1440 kg 150 mm welding wire unit 1 3 27.04.2005 10.45 201631 03410 1440 kg 190 mm welding wire unit 1 4 27.04.2005 10.45 201631 03410 1440 kg 190 mm welding wire unit 1 4 27.04.2005 10.45 201631 03410 1440 kg 190 mm welding wire unit 1 6 27.04.2005 10.55 201631 03410 1440 kg 190 mm welding wire unit 1 6 27.04.2005 10.55 201631 03410 1440 kg 19.0 mm welding wire unit 1 8 27.04.2005 10.55 201631 03410 1440 kg 19.0 mm welding wire unit 1 9 27.04.2005 10.55 201631 03410 1440 kg 19.0 mm welding wire unit 1 9 27.04.2005 10	can b	
and 1 2 27.04.2005 10.45 201691 03410 1440 kg 19.0 mm welding wire and 1 3 27.04.2005 10.48 201691 03410 1440 kg 19.0 mm welding wire and 1 4 27.04.2005 10.49 201691 03410 1440 kg 19.0 mm welding wire and 1 5 27.04.2005 10.53 201691 03410 1440 kg 19.0 mm welding wire and 1 5 27.04.2005 10.55 201691 03410 1440 kg 19.0 mm welding wire and 1 7 27.04.2005 10.55 201691 03410 1440 kg 19.0 mm welding wire and 1 7 27.04.2005 10.55 201691 03410 1440 kg 19.0 mm welding wire Teachs Teachs Conner Teachs Conner Teachs Conner Teachs Conner Teachs Conner Teachs Conner Teachs Teachs <t< th=""><th></th></t<>		
and 1 3 27.04.2005 10.49 201691 03410 1440 kg 19.0 mm welding wire and 1 4 27.04.2005 10.49 201691 03410 1440 kg 19.0 mm welding wire and 1 5 27.04.2005 10.53 201691 03410 1440 kg 19.0 mm welding wire and 1 6 27.04.2005 10.54 201691 03410 1440 kg 19.0 mm welding wire and 1 6 27.04.2005 10.57 201691 03410 1440 kg 19.0 mm welding wire and 1 8 27.04.2005 10.57 201691 03410 1440 kg 19.0 mm welding wire and 1 9 27.04.2005 10.57 201691 03410 1440 kg 19.0 mm welding wire Timulai Cannow Polynow and 1 9 27.04.2005 10.58 201691 03410 1440 kg 19.0 mm welding wire Timulai Cannow Polynow and 1 9 27.04.2005 10.58 201691 03410 1440 kg 19.0 mm welding wire and 1 9 27.04.2005 10.58		
und 1 4 27.04.2005 10.49 201691 03410 1440 kg 19.0 mm welding wire und 1 5 27.04.2005 10.53 201691 03410 1440 kg 19.0 mm welding wire und 1 6 27.04.2005 10.55 201691 03410 1440 kg 19.0 mm welding wire und 1 7 27.04.2005 10.55 201691 03410 1440 kg 19.0 mm welding wire und 1 8 27.04.2005 10.55 201691 03410 1440 kg 19.0 mm welding wire und 1 9 27.04.2005 10.55 201691 03410 1440 kg 19.0 mm welding wire und 1 9 27.04.2005 10.58 201691 03410 1440 kg 19.0 mm welding wire Image: Cause: During During und 1 9 27.04.2005 10.58 201691 03410 1440 kg 19.0 mm welding wire Image: Cause: During During und 1 9 27.04.2005 10.58 201691 03410 1440 kg 19.0 mm welding wire Image: Cause: During During Image: Cause: During During Image: C		
and 1 5 27.04.2005 10.53 201691 00410 and 1 6 27.04.2005 10.54 201691 00410 and 1 7 27.04.2005 10.55 201691 00410 and 1 8 27.04.2005 10.57 201691 00410 and 1 9 27.04.2005 10.57 201691 00410 Back 0.4000 10 1400 kg 19 0 mm welding wire Image: Mark State		
and 1 6 27.04.2005 10.54 201691 03410 1440 kg 19.0 mm welding wire Image: Darke Dar		
1 7 27.04.2005 10.55 201691 03410 1440 kg 19 0 mm welding wire Image: Cancer Davis Davis Davis unit 1 9 27.04.2005 10.57 201691 03410 1440 kg 19 0 mm welding wire Image: Cancer Davis Davis unit 1 9 27.04.2005 10.57 201691 03410 1440 kg 19 0 mm welding wire Image: Cancer Davis Davis Control of test pieces Control of search criteria en- Del a selective search for a par- Cular test piece in the archived Start Start Pieces Start Start Pieces Control of test piece in the archived Start Start Pieces Colspan="4">Start Pieces Start Piece Start Pieces Start Pieces Start Pieces Start Pieces		
1 7 27.04.2005 10.55 201691 03410 1440 kg 19.0 mes welding wire Teach Teach <t< td=""><td></td></t<>		
1 8 27.04.2005 10.57 201691 03410 1440 kg 13 0 mm welding wire Intel 1 Control 10.57 27.04.2005 10.59 27.04.2005 10.59 201691 Odd texts for test pieces Intel 10.57 A variety of search criteria en- ble a selective search for a par- cular test piece in the archived est results, for example, by ate, batch number, production		
Image: Second		
earch for test pieces variety of search criteria en- ble a selective search for a par- cular test piece in the archived est results, for example, by ate, batch number, production	Contraction of the local division of the loc	
earch for test pieces variety of search criteria en- ble a selective search for a par- cular test piece in the archived est results, for example, by ate, batch number, production	(Trans	
earch for test pieces variety of search criteria en- ble a selective search for a par- cular test piece in the archived est results, for example, by ate, batch number, production	1 aug	
variety of search criteria en- ble a selective search for a par- cular test piece in the archived est results, for example, by ate, batch number, production	- marg	
ble a selective search for a par- cular test piece in the archived est results, for example, by ate, batch number, production		
cular test piece in the archived est results, for example, by ate, batch number, production	(Constant)	
cular test piece in the archived est results, for example, by ate, batch number, production		
est results, for example, by ate, batch number, production	@140	
ate, batch number, production	@140	
ate, batch number, production	2 base	
	Per B	
	Material C	
	Per B	
2 2/04-2000 1923 201801	Material ID IDen 10 IDen 10	
	Added at 10 10410 10410 10410 10410 10410 10410 10410 10410 10410	
une 1 8 2270420011927 201691	Material ID Dento Station Station Station Station	

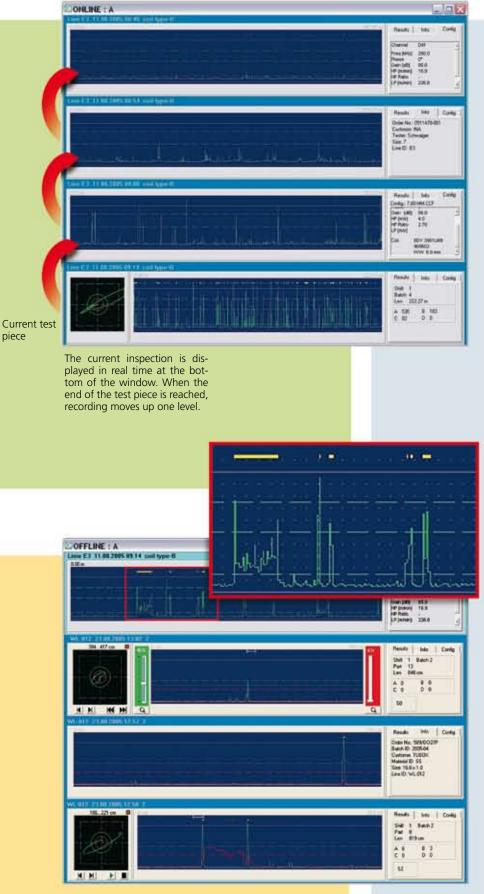
Display and analyze test results

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. Realtime signals and the correlated XY signals can be played back at any time.

1440 kg 19.0 m

M Se

View test info



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. ResultsInfoConfigShift 1Batch 4Len 222.27 mA 535B 103C 82D 0

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 that was entered as comments before testing took place, is displayed here.

Results	Into Config
Config 23	S4ES.CCF
Gain (dB)	44.2 -
HP [m/s]	0.022
HP Ratio	
LP [m/s]	0.536
Coll	EDY 3952LS17 303038 Sens.Width 6.0 mm *

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.

If you use Smart Sensor technology by PRÜFTECHNIK, the coil type and serial number are automatically displayed. This ensures seamless documentation of your test results.

Results analysis tool

After inspection has finished, the analysis tool allows you to optimize test parameters for even better defect detection.

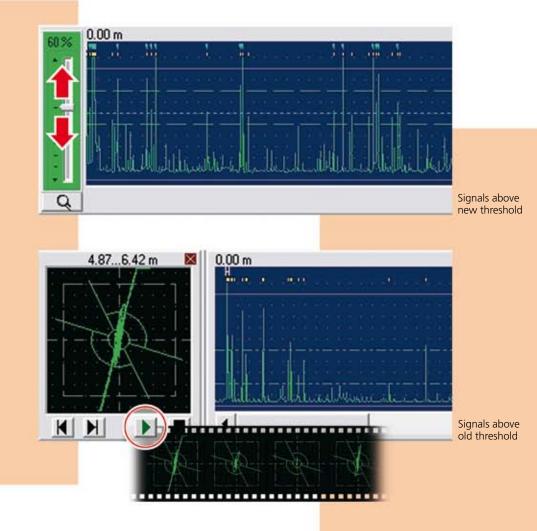
In addition, the XY signal display assists you in assessing the position that sector masks require to fit typical defect signals.

Level analysis

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

Defect search

For those realtime 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.



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.



Note: EDDYTREND runs under Windows[®] XP and Windows[®] 7.

Printed in Germany DOK 5611EN.10.10 EDDYCHEK® is a registered trademark of PRÜFTECHNIK Dieter Busch AG. No copying or reproduction of this information, in any form whatsoever, may be undertaken without express written permission of PRÜFTECHNIKAG. The information contained in this leaflet is subject to change without further notice due to the PRÜFTECHNIK policy of continuous product development. © Copyright 2005 by PRÜFTECHNIKAG. PRÜFTECHNIK NDT GmbH Am Lenzenfleck 21 D-85737 Ismaning www.ndt.pruftechnik.com Telephone: +49(0)89996160 Fax: +49(0)89967990 eMail: ndt-sales@pruftechnik.com