



InnoTrans 2010 – SICOR



Rohmann's fifth InnoTrans was not only the largest trade fair for its exhibition space, but also the most successful since 2005. Rohmann was represented by Peter Radde and Alexander von Hornhardt. The trade fair team was completed by Lutz Lindecke, who presented his company CNS for the first time. The product range on exhibition consisted of the ELOTEST M2 and M3 handheld instruments to be used for wheel and switch blade inspections. The Rohmann EloRail WPG B300 inspection trolley was presented once again this year. The upcoming approval for use of the test system drew numerous prospective users to the booth.

The new feature of the trade fair booth was the first version of the Rohmann trolley concept, an inspection trailer that performs two inspection tasks. The first task is the classic eddy current test, carried out with the aid of a patented sensor carrier from Vossloh Rail Services. This sensor carrier was developed in order to inspect the surface of laid rails. It inspects at a speed of up to approx. 80 km/h with up to 6 sensors per rail. The other inspection task is the detection of hidden cracks with a depth < 10 mm. To do this, our newly developed and patented SICOR system is put to use for the first time.

The proof of the functionality of the system was already able to be demonstrated in several series of tests on railway wheels. SICOR will now be brought to the rails for the first time and will fill the gap between ultrasound, which only starts from 10 mm, and the classic eddy current (up to a maximum depth of damage of 5 mm).

The new „trolley“ concept consists of an inspection trailer that offers significant advantages in comparison to an inspection car such as shortening the approval procedures, less weight, mobility and variable application.

The new concept was visually emphasized by means of an eye-catcher – a Smart Crossblade – to draw attention to the trade fair booth. The cooperation with Vossloh Rail Services brought many prospective customers to the trade fair booth and new contacts were able to be made.



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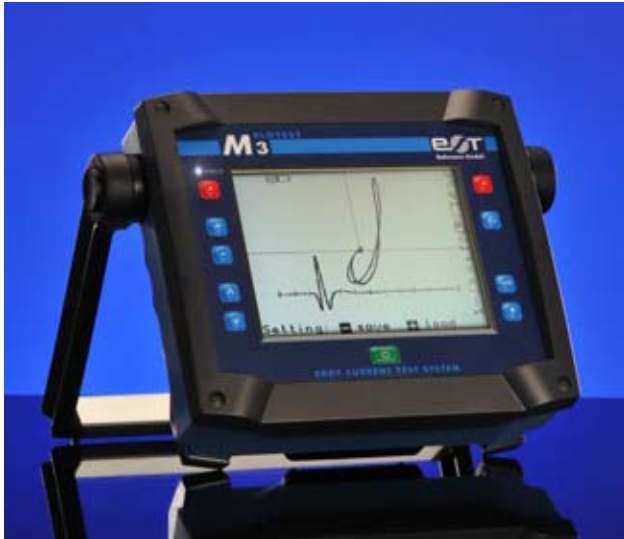
Eddy-Current-Test Instruments and Test Systems

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Product Range

From Tabletop Housing to Portable Test Device



Handiness, user-friendly interfaces and a design adapted for practical use are the characteristic features of our test devices. Following this principle, we have designed the ELOTTEST M3 portable test device to be even handier.

Equipped with a carrying handle that can be folded down and also used as a stand, it provides even more universal application for the operator.

Another new product is the M3-LS charging station, which replaces the previous charging unit. It enables the batteries in the device to be recharged and a replacement battery to be recharged while simultaneously operating the device. The practical new hard protective case allows the ELOTTEST M3 and accessories to be stored and transported in a shockproof way.



ELOTTEST M3- device set consisting of:

- ELOTTEST M3 with battery BA2
- Charging station LS
- Nylon bag
- M3-TT- Hard protective case

Order-No: A0E066011000



ELOTTEST B310- device set consisting of:

- ELOTTEST B310 with handle
- B300-BA4 accu
- B300 power supply NT2
- B3-RS adapter
- B300 Cordura bag TA1

Order-No: A0EZ10951010



ELOTTEST M2 V3- device set consisting of:

- ELOTTEST M2 V3
- Accu M2-BA3
- Hard protective case M2-TT neu
- Charging station M2-LS/MC

Order-No: A0E065805000

Events – A Look Back



German Society for Non-Destructive Testing (DGZfP)

Working Groups Visit Frankenthal

The working groups for Mannheim/Ludwigshafen and Frankfurt had already been working to organize joint excursions for a long time. On October 6th, 2010, it was finally time. Rohmann GmbH invited both working groups to its new location in Frankenthal.

The participants were led in 2 groups through the modern building, where they had the opportunity to get an overview of the diverse products at different stations.

In the sensor construction, the large number of processed materials and their dimensions made an impression. For the smallest high-resolution sensors, special copper wires are used with a diameter that can be as small as 0.05 mm. The sensors are protected from wear by various materials from simple plastic to Teflon, hard metal inserts, titanium or even diamond. A few special applications were presented in detail in the application laboratory. The crack detection of austenitic aircraft wheel bolts (BoltScan) gained special attention. The semi-automated inspection of these bolts for cracks is carried out at up to 400 revolutions per minute. Despite this speed, even the smallest cracks in the thread root can be reliably detected.

An automated inspection system for aircraft rims as well as an inspection trailer for rail inspection were vividly presented in the test hall. The „SICOR“ procedure in which intense magnetization is used to generate eddy currents in the material, thereby allowing defects (even hidden ones) to be detected even deeper, was

met with an enthusiastic response. The SICOR procedure is therefore the link between classic eddy current testing close to the surface volume testing using ultrasound.

The „main attraction“ was a robot-based test system for inspecting bore holes and flanks on an aircraft turbine disk, which was presented by Dirk Rohmann. There are many applications in aviation that only permit automated tests in order to eliminate the possibility. Due to the universal design, complex geometries can be tested with high precision sensor guidance with a high degree of repeatable accuracy.

The visit was concluded with technical discussions in a relaxed atmosphere with food and cold beverages. We would like to thank the German Society for Non-Destructive Testing (DGZfP) for their interest.



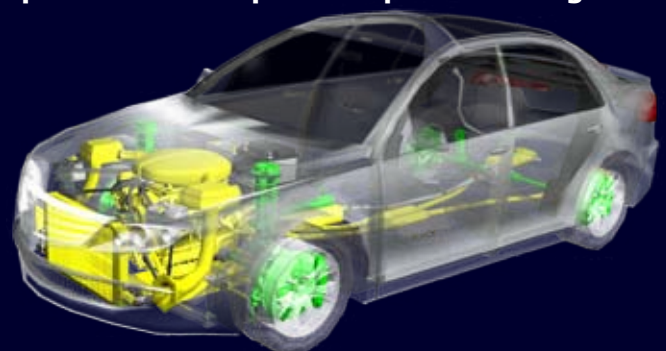
Automotive symposium on March 16th, 2011 - Non-destructive testing of vehicle parts

Advance Notice

On March 16th, 2011, we will hold an in-house automotive symposium for the first time. With interesting speeches on the subject of the non-destructive testing of vehicle parts and an in-house trade fair, we will present representatives from the automotive and semi-finished products industry with the options for workpiece inspection using eddy currents and other test procedures.

Anyone who is interested is welcome to come!

We will post more detailed information and registration forms on our homepage soon. Participation in the symposium is free of charge.



Rohmann LP – Trade Fair Report



AREMA 2010, Orlando, USA



D. Griem and E. Eberius on the booth

At the end of August, Rohmann LP presented itself at the national conference and exposition, AREMA in Orlando, Florida.

The American Railway Engineering and Maintenance-of-Way Association (AREMA) was founded on October 1st, 1997. It is the result of a merger between 3 engineering support associations, the American Railway Bridge and Building Association, the American Railway Engineering Association and the Roadmaster's and Maintenance of Way Association.

The history of the predecessor organizations are full of traditions - each has more than 100 years of experience in the railway service industry - and that is the legacy of AREMA.

The exposition was held in the Hilton Hotel in Orlando from August 28th to the 31st, 2010. More than 198 exhibitors from the most diverse sectors of the railway industry presented their products or services, and there were also 66 technical presentations.

Rohmann LP was represented by General Manager Dietmar Griem and Sales Manager Eric Eberius. System Developer Peter Radde from Rohmann GmbH traveled to the exposition with the EloRail WPG D340 inspection trolley.

Discussions of railways in America are primarily referring to freight transportation. This can be seen in the form of very slow and endlessly long double-decker freight trains.

The requirements for the tracks are very different than in Europe. The tracks are often very deformed and even if there are small ruptures present here and there, hardly anyone is bothered by them. High-speed railway transportation for passengers,

a common sight in Europe, is rather unusual in America. There are indeed plans for such lines on the west coast, but they are proceeding very slowly because Americans prefer to drive their own car.

Rohmann LP presented part of its product range and the trolley inspection system at the exposition. Even though the inspection trolley does not yet have a place in the American railway network at the current time, there was still interest and several people took the time to have a closer look at the inspection system. There was praise for its design and technology and even American manufacturers of grinding trains expressed their interest.

A highlight of the exposition was the speech by Dietmar Griem, who spoke about SICOR with confidence and expertise.

In conclusion, this event is very different from European expositions and the non-destructive workpiece testing using eddy current has a small share of the market for rail testing. The presence of Rohmann LP and the presentation of our products brought us a bit more into discussion, however.



Draisine WPG D340 in action with P. Radde

EDDY CURRENT TESTING 1+2 IN FRANKENTHAL

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Experts are in demand wherever security counts. Experts who guarantee the durability, operating life, resilience and therefore security.

SECTOR Cert has been qualifying and certifying experts in non-destructive testing since 1993. With a Europe-wide network of training and testing centers, permanent monitoring of the partners in the network as well as special practice-oriented training courses and tests, SECTOR Cert offers the industry highly esteemed certifications. After all: Only the certified are qualified!

In cooperation with Rohmann GmbH, Vector and SECTOR Cert GmbH are holding training courses and tests for eddy current testing levels 1+2 in Frankenthal in 2011 as well.

Content:

The focus of the level 1 training course is on the fundamentals of the procedure: magnetic induction, alternating current engineering and presenting impedance levels. The use of general-purpose and specialized equipment will be practiced intensively. An overview will be given of applications in the industrial sectors of pressure vessel construction, pipe and tube manufacture and the aeronautical industry. Material identity verification will be dealt with for participants from all industrial sectors.

Training Dates 2011:

Course E1-106: 11.04. – 20.04.2011

Course E1-108: 29.08. – 07.09.2011

Course E2-67: 10.10. – 19.10.2011

Please refer to our homepage for information on practical training and tests

Prices

Level 1 training: (5 days) 1.250,- EUR

Level 2 training: (5 days) 1.250,- EUR

Practical training with test preparation: (2 days) 660,-EUR

Level 1 or 2 test + certificate + certification card:
(1 day) 710,- EUR



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Exhibition Dates 2011

11. Intern. Stuttgarter Symposium
22. - 23. February 2011

Automotive Symposium, Frankenthal
16. March 2011

CNS Symposium, Potsdam
6. May 2011

CONTROL 2011, Stuttgart
3. - 6. May 2011

DGZfP-Jahrestagung 2011, Bremen
30. May - 1. June 2011

MT 2011, Telford, UK
13. - 15. September 2011

HK - Härterei Kolloquium, Wiesbaden
12. - 14. October 2011

20. testXpo, Zwick, Ulm
10. - 13. October 2011



Rohmann GmbH stand at CONTROL 2010 in Stuttgart

Reference Standards for Conductivity and Coating Thickness Measurement



ELOTES M2 V3



ELOTES M3



ELOTES B300

Our hand-held **ELOTES Eddy Current Test Instruments M2 V3, M3 and the B300-series** offer additionally to the standard eddy current functions the possibility to measure conductivity and coating thickness. All instruments use the standard test frequency of 60 kHz. The conductivity measurement can be carried out in % IACS as well as in MS/m. The measuring range extends from 1 % IACS to 110 % IACS and is suitable for the conductivity measurement of non-ferromagnetic metals and metal alloys. The coating thickness measurement can be carried out in μm or in mil and is suitable for the measuring of non-conductive layers up to 1000 μm on conductive, but non-ferromagnetic basic material.



Probe KAS-7 H-190
Standard probe for conductivity measurement at 60 kHz in straight design



Probe with prism guide KAS-7 H-190.03.1
Angled standard probe for conductivity measurement at 60 kHz



Cable EK-2-023
Connecting cable for standard conductivity probes for ELOTES M2 V3, M3 or B300. ELOTES B300 requires a B3-RS adaptor.



Reference standard TP 79.02.1
Conductivity standard



Reference standard TP79.04.1
Conductivity standard



Reference standard TP 105 aluminium
Coating thickness standard

We Are Striking New Paths!

Leasing Eddy Current Test Devices and Systems

We are all familiar with the financing options of a lease from the commercial and private sector. Together with our partner, VR Leasing, we are pleased to be able to offer our customers this new financing model starting January 2011.

In contrast to a purchase transaction, with a lease there is no immediate and often significantly high initial

investment. The monthly rates, which can be completely deducted as business expenses, remain manageable with a 54-month lease. The money that does not have to be spent on the full purchase price is then available for other investments. These are advantages that convinced us to offer this financing option to our customers as well.

The following are two non-binding lease examples:

ELOTEST M3 Set consisting of:

- ELOTEST M3 test device
- M3-BA2 battery
- M3-NT3 charging station
- M3-TT3 nylon bag
- Hard protective case



Leasing conditions:

54-month lease, no down payment:

monthly installment:

starting from 193.26 €*

ELOTEST B310 Set consisting of:

- ELOTEST B310 basic device
- Carrying handle
- B3-RS adapter
- B300 power supply
- BA4 battery
- Cordura tote bag



Leasing conditions:

54-month lease, no down payment:

monthly installment:

starting from 365.20 €*



Our partner: VR Leasing

We finance what you do.

The **VR LEASING Group** creates new spaces for small and medium-sized enterprises to develop. In addition to leasing and credit offers, we also offer our sales and cooperation partners purchase and sales financing as well as factoring and central settlement. This financing expertise – paired with industry knowledge and decades of collected experiences embedded in the cooperative association FinanzVerbund – is the basis for the distinct property know-how of the VR LEASING Group. Our business expertise distinguishes us from the competition and creates solutions for all investment needs - the foundation for the success of our partners and customers. Leasing offers financial flexibility that creates spaces to develop. One interesting feature is the modular and manufacturer-

independent offer from VR LEASING for small and medium-sized enterprises. The customer selects the property to be leased - both for new as well as replacement investments - the type of contract, the service or the duration of the contract.

We create a customized offer for you and you profit from the following:

- Optimum planning security with fixed installments and payment timelines
- Clear competitive advantages with machinery and equipment using state-of-the-art technology
- Financing that saves capital ensures liquidity

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