

## Aircraft-Symposium 2010



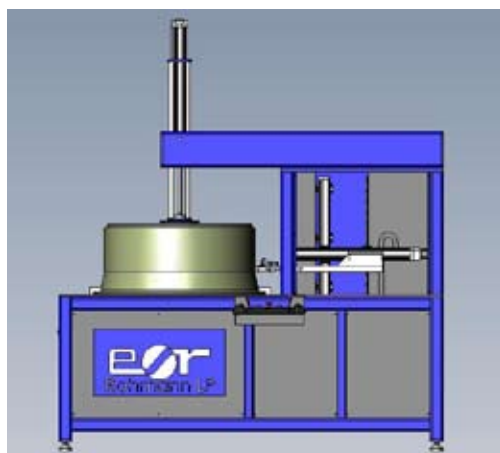
*„We cordially invite you to ROHMANN GmbH's third international Aircraft-Symposium in our Frankenthal-facility March 2 and 3, 2010.“*

*Just like for our symposiums in 1999 and 2001 we have put together a number of interesting presentations by international aviation experts. Find out about the latest trends in NDT and compare notes with professionals from Germany and abroad.*

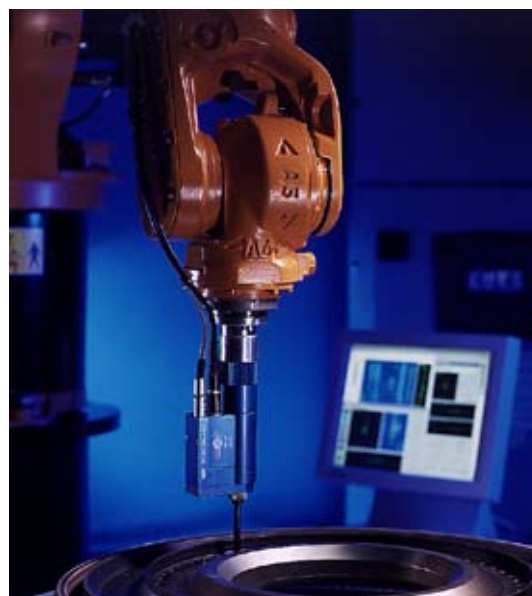
*There is no registration fee for the symposium. If you have questions or need further information regarding this event, please contact Mrs. Angela Parker at phone +49 (6233) 3 78 92 80 or e-mail [parker@rohmann.de](mailto:parker@rohmann.de).*

*We are looking forward to welcoming you to Frankenthal!*

**Rohmann GmbH**



Introduction of the EloWheel from the USA



Introduction of EloScan at the Aircraft Symposium

# Rohmann Newsletter 9

Eddy-Current-Test Instruments and Test Systems

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## Presentation of the EloWheel from the USA.....

### **EloWheel 1000**

The new EloWheel 1000 system offers a large inspection range for wheels up to 1,000mm in diameter and 200kg in weight. The heavy duty welded steel frame provides sufficient rigidity to inspect the heaviest wheels without compromise. A teach pendant for manual operation and the well known EloWheel software are features that offer additional flexibility to the operator to conduct fast sample inspection or inspection of small and large batches.

The software stores the test results along with operator evaluation comments on a data base. The advanced search function allows the operator to find historic data for evaluation and comparison. Inspection speeds of 120RPM for smaller wheels fulfill requirements of most procedures.

The sturdy linear slides in combination with modern stepper motor technology provide a vibration free probe movement along the wheel.

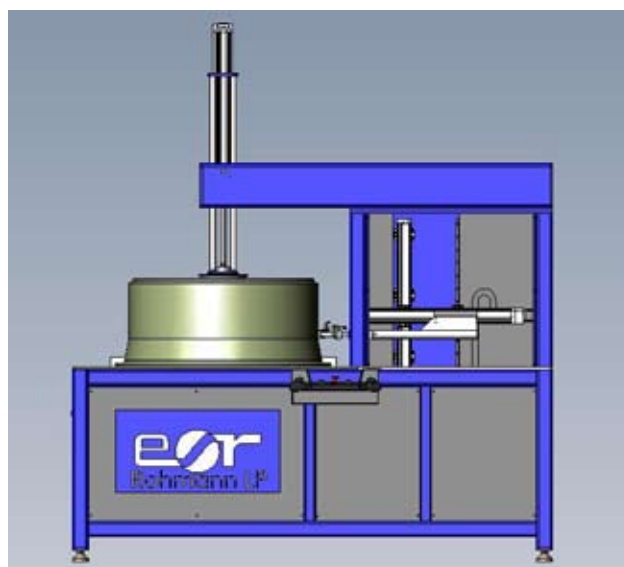
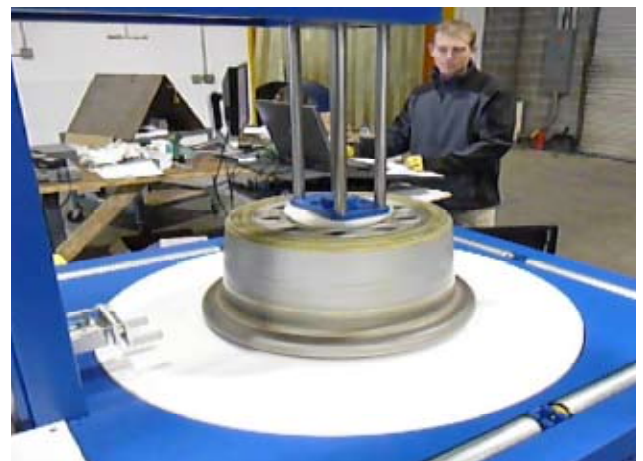
Low and high frequency probes in combination with the ELOTEST PL300 provide offer and fast signal processing as well as data acquisition.

Optional manual bolt hole inspection and conductivity measurement complete the versatility EloWheel 1000.

- Crack detection on tube wall and bead seat
- Crack detection of hidden flaws with low frequency probe
- Manual conductivity measurement with additional probe
- Bolt hole scanning with SR1 or MR3 rotary guns
- Network connectivity

For more information contact your local Rohmann representative or log on to our websites:

- [www.rohmann.com](http://www.rohmann.com)
- [www.rohmann.de](http://www.rohmann.de)
- [www.rohmann.uk](http://www.rohmann.uk)



## MT2009 Exhibition, Blackpool, UK

The range of Rohmann products was again on display at the popular Materials Testing exhibition organized by the British Institute of Non-destructive Testing. The event is held on alternate years and on this occasion was held at the seaside resort of Blackpool. As always, it is an opportunity for existing Rohmann customers to catch up with the latest products and information and for prospective customers to see the capability of Rohmann GmbH. Simon Barnes and Neil-Maughan-Smith from Rohmann (UK) were on hand for the 3 days and report that it was quieter than previous years, nevertheless some good contacts were made and some familiar faces were also seen.



Mr. Simon Barnes and Mr. Arjan Maarschalk from Benelux NDT

## Rohmann (UK) Ltd - Celebrates 25 years.

On February 7th 2010, Rohmann (UK) Ltd is delighted to celebrate 25 years in business. For the first 19 years Mr Angus MacInnes led the company; he now is happily retired and is living in Wales. In 2004 Simon Barnes took over full control of the company and is pleased to have seen steady growth in its performance. He would like to thank the management of Rohmann for the continued support and co-operation and looks forward to the next decade. He also thanks the overseas agents that are supported by Rohmann (UK) for their hard work.



## Benny Zuber – our new Quality Manager

The position of Quality Manager which, since the inception of the Quality Management System had always been in safe hands became unexpectedly and surprisingly vacant. We were therefore pleased to learn that Benny Zuber, a controller in our organization who had previously trained in this, readily accepted the challenge and, with this, a larger responsibility. After weeks and months of intensive preparation and training, the 28-year old finally put the complete Quality Management System on test.

Much of this could be accomplished in record time thanks to the outstanding co-operation of all staff members. Projects for 2010, such as the expansion of the internal audits, improvement of communication and documentation or the overall project plans and schedules for departments have already begun.

Mr. Zuber has been both an auditor and managing director abroad and wanted to make the QM system accessible for the first time ever, initially through documentation, accessible to our internationally operating customers and representatives. The objective is that all customers will have the possi-

bility to have a view of the QM system at Rohmann GmbH. After all, this system is a core component of our daily work and firmly linked to the quality of our products.



## Training Courses...

### ***ELOTEST B300 – Training in December 2009***

An intense training course on the B300 was held from 14th-16th December 2009. Apart from the theoretical content, the emphasis of this training was particularly on the practical usage of the instrument.

The programm included the following:

- Setup and adjustment
- Basics of instrument operation
- Crack and structure testing
- Interfaces, connection possibilities, probes, coils and accessories
- C-Scan application
- Recording, and saving of signals and creating reports
- Frequency mixing
- 2-Frequency application Boeing/ Scan Alyzer
- Video-option und Endoscope
- Conductivity measurement
- Coating thickness measurement

There was ample opportunity for practical work with the instrument on every topic. There were plenty of sample parts from the most different of applications from aerospace and automotive industries available for the students to use for the practical work on the individual topics.



#### New training dates for 2010

- 15th – 17th June  
Manual Instruments  
(ELOTEST M2 + M3 + B300)
- 23rd – 25th November  
Production line instruments  
(ELOTEST IS + PL500)

**This training will cover the following sectors:  
Rail, Automotive, Aerospace**

## EDDY CURRENT LEVEL 1 & 2 TRAINING IN FRANKENTHAL

REGISTER NOW AT: [WWW.VECTOR-TUB.DE](http://WWW.VECTOR-TUB.DE)

Where safety is important, questions are asked of experts, experts who guarantee stability, durability loading capacity and therefore safety.

Since 1993 SECTOR Cert GmbH has qualified and certified non-destructive testing experts. SECTOR Cert offers industries highly respected certification through the use of a Europe-wide network of training and testing centers, continuous checks on the network partners as well as the special practical-oriented training and testing. So; only those who are certified are qualified!

In co-operation with Rohmann GmbH, Vector and SECTOR Cert GmbH are holding eddy current level 1 and 2 training and exams 1+2 in Frankenthal for the first time.

### Course content:

- The difficult part of level 1 training is the basics of behavior of magnetic induction, eddy current technology and impedance plane display.
- Intensive familiarisation with generic and special instruments.
- An overview of industrial applications including pressure tank manufacture, tube production and aviation.
- For participants from all industries material sorting is covered.

### Training Dates:

Course E1-101: 29.03. – 06.04.2010

Course E1-103: 13.09. – 17.09.2010

Course E2-65: 27.09. – 01.10.2010

Please check our home page for the dates of the practical training and exams

### Prices

Level 1: (5 Day course) 1.250, – EUR

Level 2 (5 Day Course) 1.250, – EUR

Practical training with exam preparation (2 Days) 660,-EUR

Exams Level 1 or 2 + Certificate + Licence (1 Day) 710, – EUR

### Register at:

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**Frau Britta Rademacher**

**Am Walzwerk 17**

**45527 Hattingen**

**Tel: 02324.919820**

**Fax: 02324.9198209**

**Mail: [info@vector-tub.com](mailto:info@vector-tub.com)**

**[www.vector-tub.com](http://www.vector-tub.com)**

## Exhibition Dates 2010

**CONTROL, Stuttgart, Germany**

**04.05. – 07.05.10**

**ECNDT, Moskau**

**07.06. – 11.06.10**

**INNOTRANS, Berlin**

**21.09. – 24.09.10**

**ZWICK, Ulm**

**11.10. – 14.10.10**

**ASNT, USA**

**13.11. - 14.11.10**



Rohmann GmbH stand at CONTROL 2009 in Stuttgart

## User Information - Tube testing using the M170 magnetizing yoke

### Testing of tubes in the production line

Automated eddy current testing line for welded or seamless pipes to find surface defects (cracks, dents, blow-holes, porosity).

### A few technical facts:

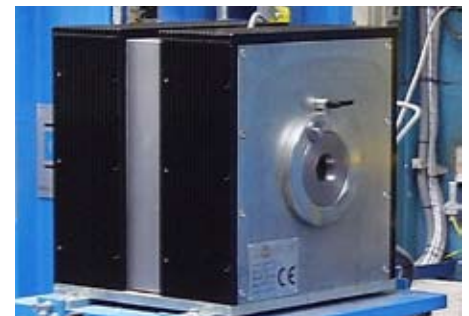
- Test standards. The system fulfils all international standards for eddy current testing of tubes (e.g. DIN/EN 10246)
- Tube diameter: Tubes up to 170 mm  $\varnothing$  can be tested
- Tube length: Typically tubes lengths are 2m - 15m (other lengths are possible)
- Test speed: Dependent on other factors such as outfeed and sorting equipment and whether defect marking or de-magnetization is required but generally ca. 2 m/s (however considerably higher speeds are possible).



An example of a complete testing line for tubes with the ULAD-coil in M170 magnetization yoke and DC/AC demagnetization.

### Components of the standard test system:

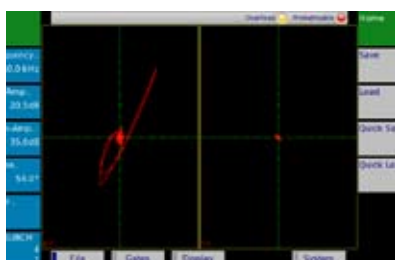
- Infeed: Twin drivers with V-Rollers
- Differential ULAD encircling coil with magnetization yoke
- Positional accuracy of the test coil via height/position adjustable table.
- Outfeed: Twin drivers with V-Rollers
- Control cabinet with test instrument and computer for documenting the test results
- 2-channel ELOTEST PL500 eddy current test instrument for differential and absolute testing of the tubes. Shift register for control of the optional paint-marking system.
- EloLine documentation software
- Automatic sensors either side of the drivers to detect the tubes and to control the top feed rollers.
- Driver V-Rollers and top feed roller are hardened steel or optionally plastic
- Light beam in front of the magnetization yoke and pulse path generators at the infeed and outfeed drives to ensure positional accuracy on the error documentation generated by the EloLine software and, where required, to control the paint marking system.



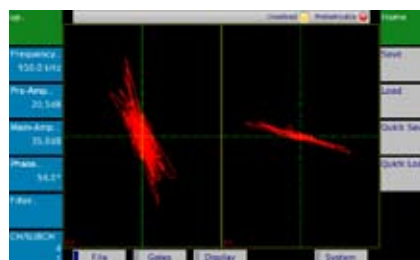
Magnetizing yoke M170



EloLine Software to document the test results for long products



Signal from PL500/LP with magnetization



Signal from PL500/LP without magnetization



In-Line eddy current test instrument ELOTEST PL500/LP

## Sorting Days 2009 – Introducing the ELOTEST PL500Q

On 3rd-4th November, Rohmann unveiled its latest instrument in the Elotest range. The performance of the PL500Q supplements the existing range of instruments with a multi-frequency eddy current instrument for multitude of different sorting tasks. The presentation of both the concept and the instrument itself took place in the form of "Sorting Days" at Rohmann GmbH's new headquarters in Frankenthal. Amongst those present were representatives from all parts of Germany, as well as from Spain, France, the Netherlands, Italy, UK, USA, Russia and Korea. An innovative and varied daily time-table, was rounded off with detailed practical applications using the equipment. During a pleasant buffet lunch and evening meal, the various representatives exchanged information on applications and got to know the new colleagues. Also specific technical questions could be asked of and answered by the appropriate specialist co-workers of the different specialist areas in one-to-one discussions. Specific applications such as the integration of the Long Product (EloLine) Software or the control of external sorting systems, were addressed in detail by the lecturer and illustrated by practical examples

Overall Sorting Days 2009 at Rohmann GmbH in Frankenthal was an information-rich and interesting meeting so people could become acquainted with the new ELOTEST PL500Q.



ELOTEST PL500 Q – Sorting Instrument with small sorting system



Rohmann Agents during practical application training using the new ELOTEST PL500Q



Small parts to be sorted



Good parts



Bad parts

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