



ibg-Talk



It is time:

ibg signals the new generation of eddy current test instruments and sets the new standard in structure test and crack detection technology for component testing.

The generic term **eddyvisor**[®] includes a new family of instruments, different models will be available tailor-made for each crack detection and structure test application. We would like to inform you on some main facts of the new and pioneering instrument concept in this issue.

For our German customers: our traditional Workshop will be organised in April 2005. This is an occasion to see the new instruments "live".

*Yours
Herbert Baumgartner*

The eddyvisor[®]: The new standard for production and laboratory

The demands on instruments for non-destructive material testing in the production of automobile components are increasing. Quick and reliable testing is one important point, additionally complete documentation of test results as

well as ease of handling is also required. The new generation of instruments **eddyvisor**[®] fulfils these requirements and offers in addition some technical features for optimisation of testing and cost reduction in the production process.



Page 2: **eddyvisor**[®] - New operational concept

Page 3: **eddyvisor**[®] - Technical details

Page 4: **eddyvisor**[®] - High-speed applications

Two operational concepts

Two models of the **eddyvisor®** will be available.

The switch panel version of the **eddyvisor®** consists of the **eddyvisor®HMI** (Human Machine Interface) and the **eddyvisor®MS** (M = Measuring Unit, S = Structure test).

The **eddyvisor®HMI** and the **eddyvisor®MS** may be installed at different places, they are cable connected. The **eddyvisor®HMI** is designed for integration into automated production lines.

The operator-friendly HMI may be installed near the operator, always visible for the personnel; the measuring unit however, is installed in the switch cabinet or near to the test coils.



The **eddyvisor®MS** is equipped with up to 32 channels.

Both versions have the same large, bright 15" touch screen so that you can easily view your test results.

for laboratory and production



Clear display of tolerance fields

The desktop version **eddyvisor®DS** (D = Desktop, S = Structure) is best suited for flexible tasks in the laboratory or small and medium volume testing in production.

The instrument is equipped with up to 16 test channels.

The conversion from one part type to a different one takes only a short moment when the tolerance fields are stored. New material data recording of OK parts is possible within 5 - 10 minutes.

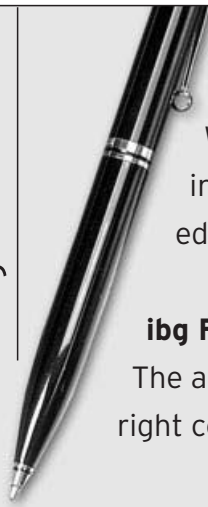
Further facts:

- Preventive Multi-Frequency Test with up to 32 test channels
- Well presented graphic display of tolerance fields, test results and history of the latest parts tested
- Various possibilities for analysis and documentation
- Ease of operation by unskilled personnel
- Very fast test time in millisecond range
- Only good parts needed for calibration
- USB ports and Ethernet port
- Crack detection module will be available in 2005
- Analyses Tools e.g. regression analyses
- Remote control via Ethernet



Display of locus curve

ibg - extra info



Workshop in Germany:

We are on tour in April 2005 visiting five cities in Germany to present our new generation of eddy current test instruments.

ibg France moves to Paris.

The address is valid from January 2005 (refer to the right column).

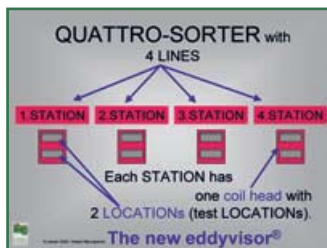


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High-speed applications

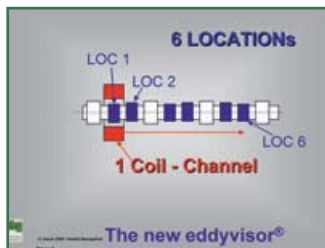


Example 1: Quattrosorter

Using 4 test coils at the same time enables testing up to 18,000 parts per hour non-destructively for correct heat treatment (hardness, case depth, hardness location etc.).

Example 2: Camshafts

Each cam and journal is tested for correct heat treatment. Up to 32 different test locations (tolerance fields) may be verified by the eddyvisor in a very short time.



Example 3: Monitoring of hardening process

Test table to monitor several induction-hardened zones on four different drive shafts. The test result is available within a fraction of a second and completely documented.



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