



eddyliner[®] digital New family of instruments for structure test and crack detection

ibg launches the **eddyliner[®] digital** as a test instrument specially designed for manufacturers of safety-critical components, e.g. for automotive industry and their suppliers.

The eddy current test instrument **eddyliner[®] digital S** reliably verifies components for correct hardness, material mix and heat treatment parameters.

The **eddyliner[®] digital C** detects efficiently and definitely surface defects like cracks, pores and grinder burn.

Both instruments apply the Preventive Multi-Frequency resp. Preventive Multi-Filter Technology which also detects unexpected defects. Compared with traditional instruments which are set to a certain failure pattern only, the Multi-Frequency resp. Multi-Filter technology has the big advantage of detecting a wide range of possible defects.



ibg Prüfcomputer GmbH has developed to the market leader of component testing based on eddy current technology during the past years. Not least because of the excellent, in line with the market requirements and high-quality products which are asked for by fastidious customers worldwide.

Due to short product cycles, ibg is capable of offering new and up-to-date solutions. After the instrument family **eddyvisor[®]**, a product range for complex tasks, completed two years ago, ibg now launches the new generation **eddyliner[®]**.

The **eddyliner[®]** instruments have been designed mainly for standard applications, for structure test and crack detection, and they offer the relating, newly developed functionality.

Get more information in this issue.

*Yours
Herbert Baumgartner*

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eddyliner[®] digital S

Structure test and Preventive Multi-Frequency Technology

Reliable testing, easy handling, flexible operation fields and gapless documentation of test results: these features are nowadays expected by operators of an "ideal" test instrument.

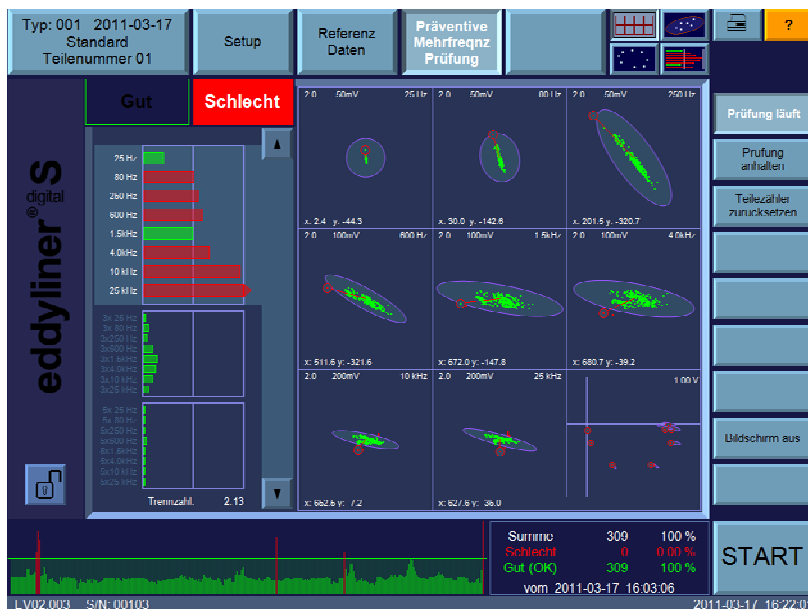
ibg meets these requirements with its structure test instrument **eddyliner[®] digital S**. The instrument is suitable for either integration in automated production lines or flexible use in a laboratory for small and medium series testing. Thanks to harmonic wave analysis, test tasks which have been "impossible" up to now will get a solution.

Further facts in catchwords:

- Preventive Multi-Frequency Test with 8 frequencies to detect unexpected defects as well
- one test channel; extended frequency range from 5 Hz to 3 MHz
- harmonic wave analysis



Display with eight tolerance zones as bargraph diagram



... and as ellipse

- clear graphic display of tolerance zones, test results and history of the latest tested parts
- versatile evaluation and documentation options
- extremely fast test time in milliseconds range
- good parts only needed for calibration of instrument
- very easy operation, also by semi-skilled staff
- USB- and Ethernet interfaces

eddyliner[®] digital C

Crack detection and Preventive Multi-Filter Technology

The Preventive Multi-Filter Technology has been applied up to now only with the **eddyvisor[®]C**. Now it is implemented in the **eddyliner[®] digital C**, too. Good parts only are needed for setup of the instrument and it is feasible now to detect unexpected defects like cracks of any orientation, porosity or grinder burn as well (contrary to the traditional eddy current crack detection method).

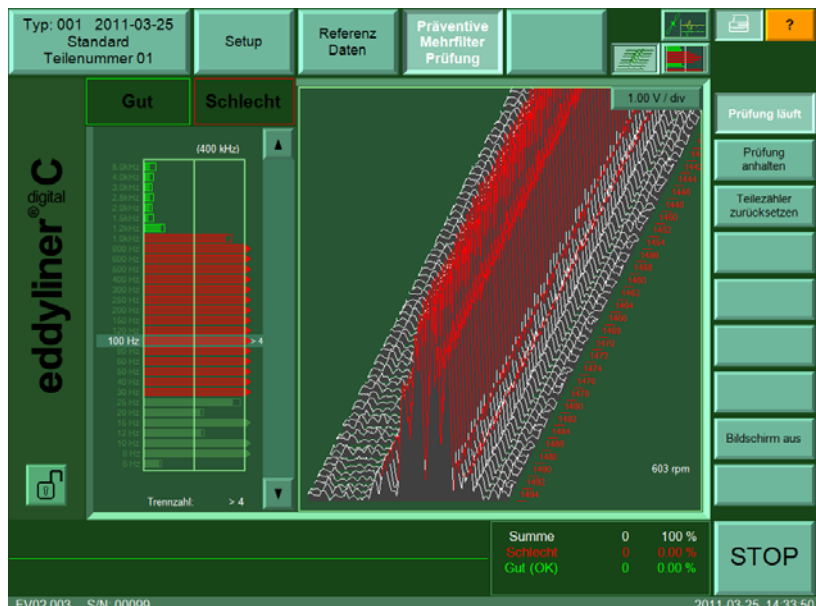


The instrument captivates by:

- carrier frequency range 3 kHz - 10 MHz
- Preventive Multi-Filter method with one channel
- lift-off compensation as option
- LCD colour touch screen

Display of test results as bargraph, y(t)- and x(t)-diagram

- 30 band pass filters in the range of 6 Hz - 5 kHz
- bargraph diagram, X/Y-diagram with tolerance zone display, x(t) and y(t) or three-dimensional C-scan display
- 32 in- and outputs for connection to a PLC



Three-dimensional C-scan

ibg - extra info



The **eddyliner[®] digital** market launch was the occasion to invite all our representatives to the International Sales Meeting in Nuremberg in January 2011.

More than forty participants from twenty countries were welcomed for product workshops, hands-on seminars and exchange of experience. ibg sets great store by sound knowledge and corresponding qualification of the sales partners.



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The instruments may be used in automated production lines but also as a flexible device for small and medium series testing. Due to the extended range of functions like harmonic wave testing, lift-off compensation and additional amplification, difficult applications may also be solved process-safely.

Typical test parts are all kinds of interconnection elements, bearing-, drive-, motor and steering components but also other safety-critical parts which are produced in large quantities.

ibg offers of course all the sensors and handling systems which are developed and manufactured in house.



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