



## **Fast and Reliable On-Line Inspection With New Industrial Eddy Current System**

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Huerth, Germany ([PRWEB](#)) April 24, 2005 -- The new Vector 2d from GE Inspection Technologies has been specially designed to provide fast and reliable, on-line and off-line eddy current inspection in the automotive and metals manufacturing sectors. The new dual frequency instrument allows for accurate inspection at high line speeds, providing significant increases in productivity, while reducing in-service, warranty claims.

The Vector 2d is housed in a standard rack mounting module for easy integration in industrial environments but is also available as a stand-alone version for bench mounting. Its intuitive, single page set-up menu eliminates the need for complicated set-up procedures while six soft keys allow quick and easy programming of operating parameters. It incorporates the latest, state-of-the-art filter technology to prevent long term spot drift caused by changes in parameters, such as temperature, and to eliminate interference from electrical sources and from mechanical vibration. The overall filter system provides the user with one of the best signal-to-noise ratio of any comparable instrument on the market.

The main areas of application of the robust new instrument are crack detection and hardness sorting. When operating as a hardness sorting instrument, it detects differences in conductivity to segregate components. When working with industrial probes suitable for surface scanning it can identify defects in a wide variety of components, regardless of complexity of geometry. For example, in the automotive industry, it can be used, typically, for crack detection on master cylinders, bearing races, pistons and fuel injector nozzles and for weld inspection on bumpers. Vector 2d inspection of critical engine parts can often realize annual savings which are many times the initial capital investment.

In both modes of operation, the output from GE's Vector 2d can be used to activate a paint marking system, an alarm signal or an accept/reject gate, minimizing the need for human supervision during the inspection process. Its accuracy and reliability also fit the Vector 2d for situations where stringent contractual inspection requirements are imposed by the end user of a particular component or where very high quality is demanded by key customers.

Real time display of all inspections is provided on an easily viewable LCD and there is capacity to save up to 50 traces and 50 settings internally. Data can be downloaded to a PC via an RS232 connection or via a standard I/O connector to an A to D board or a strip chart recorder.

### **About GE Inspection Technologies**

GE Inspection Technologies is a global leader in technology-driven inspection solutions that deliver customer productivity, quality and safety. The company designs, manufactures and services radiographic, ultrasonic and eddy current equipment to test materials without deforming or damaging them. Its products are used in a wide range of industries, including Aerospace, Power Generation, Oil & Gas and Automotive. The company has 11



application centers around the globe and offers a range of services including repair, calibration, training and upgrades. GE Inspection Technologies has 1,000 employees at more than 25 facilities in 25 countries worldwide. To learn more about GE Inspection Technologies visit [www.GEInspectionTechnologies.com](http://www.GEInspectionTechnologies.com).

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