EddyStar

Configurable In-production Eddy Current Non-destructive Testing



Technofour EddyStar is a novel concept of configurable yet economical - networked Eddy Current non-destructive testing in production lines. EddyStar systems are controlled by a PC or laptop over ethernet from any convenient location in the factory.

EddyStar can be utilized for defect detection in tube production lines or for testing automotive components for surface defects, or as a simple grade sorter for in-production 100% quality inspection of metallic components or raw stock.

Several EddyStar systems can be connected to a single computer in a TCP/IP ethernet network. They can even be heterogenous, i.e., Some in the network can function as grade sorters, while others can operate as surface-defect detection systems. Each EddyStar can also handle automatic sorting and paint marking through a locally connected PLC.

Two versions of EddyStar are offered:

EddyStar-SD can handle static (grade sorting) as well as dynamic (defect detection of tubes or components like ballpins, gudgeon pins etc) tasks.

EddyStar-S is engineered to cater only to simple grade sorting applications in a cost-efficient manner.

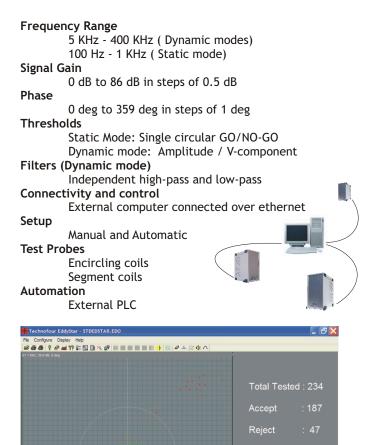
- Static and Dynamic tests
- Eddy Current defect detection in tube mills
- Online or offline operation in tube mills
- Surface defect detection on roto-symmetrical components
- Grade sorting of components or bars, forgings, tubes etc
- Wide frequency range
- Load or save often used parameter sets from a computer
- Independent High-pass and Low-pass filters
- Absolute channel option for open-weld detection of tubes
- Automation/ paint marking handled by PLCs
- TCP/IP ethernet connection with a remote controller
- Up to eight systems can be controlled by a single computer
- Log results in the control computer
- Print reports from the control computer
- Cost effective with uncomplicated eddy current tests

Some features are only available in EddyStar-SD





EddyStar TECHNICAL DATA

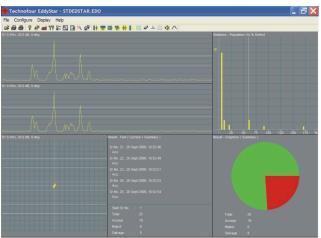


EddyStar can be configured to sort metal components or raw stock

as a simple Go/No-Go tester in production lines. The system can also be connected to a gate-sorter for automated sorting of components

in two groups.

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EddyStar-SD can be configured for online or offline tests in tube mills, or to detect surface cracks in automotive or other rotosymmetrical components. All signals and statistics are displayed on the controlling computer.

EddyStar is Offered in Two Versions

EddvStar-SD can handle both dvnamic tests (Online / offline defect detection on metal tubes and pipes or detection of transverse defects on rotosymmetrical metal components) as well as static test (Grade sorting, or segregation of metal components or raw stock as per alloy type or heat treat condition). An additional optional absolute channel can also be supplied with EddyStar-SD for detection of open welds in online configurations.

EddyStar-S is targeted at simple cost-effective material sorting applications. It can be used as a GO-NOGO inproduction tester if the materials to be accepted can be differentiated with unacceptable materials using the single circular threshold. Technofour Multifect-EC or Multifect-EX can be used for trickier applications.



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Automatic sorter for EddyStar-S