MISTRAS

One Source for Asset Protection Solutions

PRODUCTS & SYSTEMS DIVISION | APPLICATION BRIEF


*MISTRAS' small tubing and bar inspection application is a cost-effective, fully digital data acquisition, analysis, and archiving system for small tubing and bar testing. It produces a digital strip chart, rather than paper, which enhances data presentation, review, storage and archiving.*

# Small Tubing and Bar Inspection - Fully Digital System

The versatility of MISTRAS' complete, standalone Remote UT™ Ultrasonic System coupled with the fully featured Ultrasonic Testing software UTwin™ now allows MISTRAS to present customers with cutting-edge application capabilities – fully digital data acquisition of small tubing and bar inspection.

For use in examining tube and bar integrity for flaw and thickness variation, this front-line offering not only improves fully Ultrasonic (UT) data acquisition and analysis functions, but also modernizes data output and archiving of a digital strip chart display.

## PROBLEM

Increased cost and efficiency burdens of outdated, obsolete paper strip charts.

Existing small tubing and bar inspection techniques required the recording of a strip chart for data analysis and subsequent physical storage of the paper strip for archival purposes. This translated into an increased burden on customers for physical storage of data. Couple that with the fact that paper strip charts are becoming more and more expensive as well as harder and harder to find.

## SOLUTION

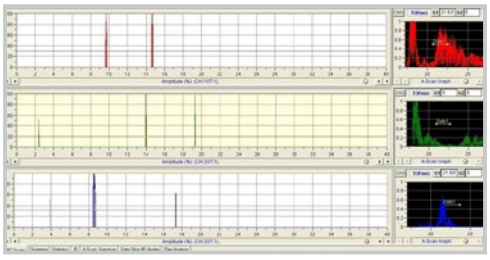
MISTRAS' Small Tubing and Bar Inspection application tests precision tubing and bars for flaw detection, and includes flaw alarming outputs and stop-on-defect features displayed as a digital strip chart.

No longer is data output onto a physical paper strip. Instead, it's acquired, analyzed and stored digitally, and outputs to a marking system – UTwin™. This, in turn, makes archiving and long-term review both easier and more cost-effective. An annotation drop-down menu is available during scans to mark the following anomalies: ID Defects, OD Defects, Tube Ends, & Insert Defects.

The Remote UT™ offers 4-8 channels of digital high-speed data acquisition and comes protected in a weather-resistant enclosure, making it ideal for field and industrial use. Multiple configurations include:

- As a remote Pulser/Receiver and Digitizer interfaced to a host computer in a client-server set-up – ideal for Tube and Bar Inspection Systems
- As a complete UT Flaw System that includes encoder interface, a PC and UTwin™

**Client-Server Mode** – The Remote UT™ is provided with single- or multichannel, P/R/AD circuitry, installed at a location close to the transducer manipulator. Remote UT™ links to host computer via an Ethernet cable for interface with UTwin™ and data acquisition.



## BENEFITS

- Replaces costly, hard-to-find strip paper with a digital strip chart
- Enhances/digitizes data storage & archiving
- More cost-effective than previous methods

## KEY FEATURES

- Windows-based Ultrasonic data collection, analysis & reporting control program (UTWin™)
- Digital replay of tests

**WORLDWIDE HEADQUARTERS:**
195 Clarksville Rd •
Princeton Jct, NJ 08550 • USA
T: +1.609.716.4000 • F: +1.609.716.0706
E-MAIL: sales@mistrasgroup.com

**Visit our website for an office near you**
**www.mistrasgroup.com**

Local Presence, Global Reach!