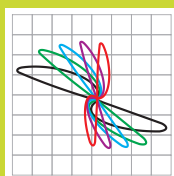


TUBE-O-TEST

Advanced Embedded system suitable for online / offline eddy current testing of ferromagnetic and non ferromagnetic tubes, wires, bars, to full fill inspection standards using encircling coil / segment coil



ANUP NDT PVT. LTD.

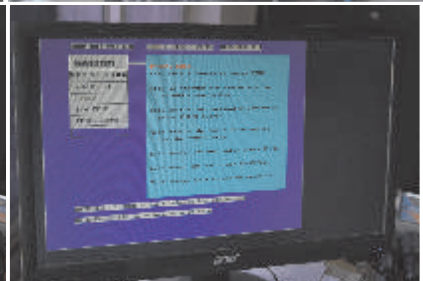
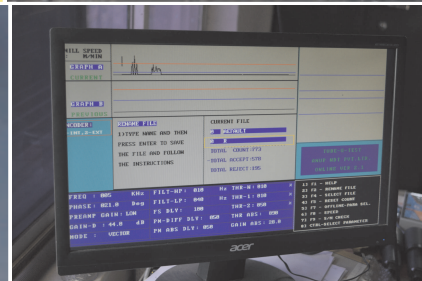


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ON-LINE TESTING

Tube-O-Test with Differential Channel for short sudden and abrupt discontinuities an Absolute Channel for long and open discontinuities. Automation can be added / modified as per the configuration of the test location. Testing is done with encircling coil or segment coil depending on full body inspection or weld line inspection. Tubes from 3 mm to 500 mm can be tested

- 100% Length of the tube is inspected
 - Immediate correction to mill setting is possible to reduce rejection
 - No additional mechanical handling system required
 - No additional time for testing is required
 - No additional space for testing is required
 - Less cost of testing
 - No demagnetization required
- No retesting is possible
 - Speed of testing depend on mill speed
 - Schedule for 3rd party inspection may affect the production
 - Auto sorting is essential
 - Close fill factor not possible

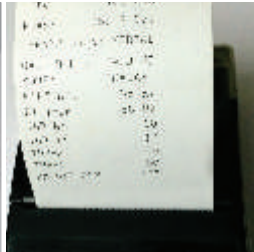
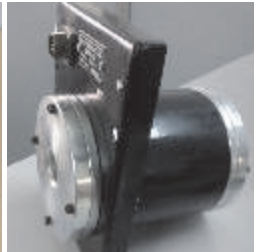
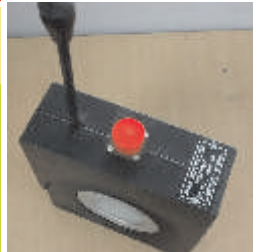
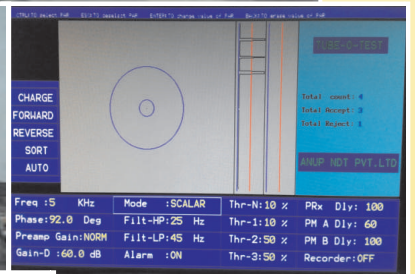
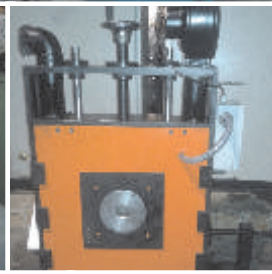


OFF-LINE TESTING

Tube-O-Test with Differential Channel for short sudden and abrupt discontinuities an Absolute Channel for long and open discontinuities. Automation can be added / modified as per the configuration of the test location. Testing is done with encircling coil or segment coil depending on full body inspection or weld line inspection using mechanical handling system. Tubes from 3mm to 220 mm can be tested

- Retesting is possible
- Close fill factor is possible
- Inspection can be scheduled as per the requirements
- More than one mill production can be tested
- Can be the final inspection before dispatch

- Ends of tube are not inspected
- Demagnetization is required
- Additional time, Space required
- Additional mechanical handling system is required

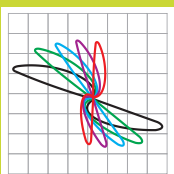


SPECIFICATIONS

Frequency	: 1 KHz to 999 KHz
Gain	: 10 dB to 80 dB
Phase	: 0 to 359 deg
Filter	: HP- 255 Hz max. (Auto / Manual) LP - 512 Hz max. (Auto / Manual)
Threshold	: Noise and 3 variable
Mode of testing	: Phase sensitive or Amplitude
Paint Marking signal	: Synchronised signal is provided
Alarm	: provided
Balance	: No balance for Differential Channel and Push to balance for Absolute channel
Border line automation	: Provided
Recorder	: For YT signal and setting parameters
Interface	: Through SCADA on request
Setting storage files	: 100 nos. of settings stored and recalled .
Magnetic saturation	: Coil / Yoke type saturation for ferromagnetic tubes to suppressing permeability variations.
Sensors/Probes/Coils	: Encircling coils, segment coils, and ID bobbin coils can be used.
Tube Size	: 3 mm to 500 mm
Tube Material / Process	: Copper and brass tubes, Stainless steel (welded and seamless) , Steel (ERW/HFIW) and seamless. (Ferromagnetic and Non ferromagnetic)
Automation	: For Offline testing specialized feeding system are needed to pass the Tube in control condition.
The Inspection Standard	: ASTM B 111, ASTM E 309, ASTM E 243, ASTM E 426, IS 1239, ASTM A 450, EN 10246, API 5L, and equivalent

Mechanical handling systems are provided on request

Specifications subject to change



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