

DIGITAL ULTRASONIC SINGLE RAIL TESTER (B-SCAN) ALONG WITH 9 PROBES

RDSO APPROVED-SPECIFICATION NO. RDSO/M&C/NDT/128/2007, (B-Scan) Rev-IV, August 2021

(EECI MAKE MODEL - SR09)



General features of equipment

- Capable to scan rail head transverse defects including gauge face and non gauge face corner defects, bolt hole in web portion and horizontal defects in rail head, web and foot-junction
- Multi-channel, Multi coloured time base, Split screen with large TFT display
- Screen displays A-scan pulse echo and B-scan simultaneously during single run of rail testing
- Capable to record A-scan defects envelope in real time along with data setup and continuous B-Scan recording
- Facility of location stamping Km/m/mm with built in digital encoder and GPS (latitude and longitude) recording real time recording duly synchronized with satellite clock
- Facility for offline recreation of A-Scan defect echo envelope display from recorded B-Scan
- Facility to download recorded data from SRT to USB based Pen-Drive
- Facility for recalling and viewing calibration setups, stored A-Scan defect echo envelope and B-scan recorded data

- Facility to record 200 nos real time A-Scan defect echo envelope and to record continuous B-Scan of 50 Km rail length corresponding to A-Scan echo
- Facilitates storing of 10 calibration set ups
- High accuracy of detection of rail defects
- Equipment is user friendly, light weight, handy and robust

Features of Trolley

- Unique design of probe assembly gadget to consistently locate probe with reference to rail profile, independent of trolley lateral movement or worn out rails, to give repeatable & correct signal amplitude under long use rough site condition & during passage over curved sections or tunnel sections
- Trolley is provided with a pair of wear resistant insulated replaceable wheel to accommodate 60 Kg (UIC 60/60E1), 52 Kg and 90 R rail section profiles
- Free and smooth movement with minimal fatigue to operator
- Trolley is user friendly, lightweight and easy for transportations
- Battery box, tool box, space for paint bottle with brush and odometer which is protected against physical damage

Features of Probes

- Individual probes for 70° F & B, 37° F & B, 70° gauge & non gauge face F & B, 0°
- High Sensitivity & Stainless Steel heavy duty body for wear resistance
- Compact design of probes provides small foot print on rail head
- Probes are spring loaded to easily adjust for curve/free rail/tongue X-ing sections