

**ScanMaster**

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# Train Rail Ultrasonic Inspection Trolley

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**SRI-10 SERIES RAIL INSPECTOR**



*State-of-the-art ultrasonic inspection system for  
manual flaw detection, evaluation and  
documentation of defects in train rails*



# SRI-10 SERIES RAIL INSPECTOR

## PRODUCT DESCRIPTION

The **SRI-10** tests one rail at a time with up to five transducers. It consists of the following items:

- **i-100** - Ultrasonic portable instrument
- Battery pack
- 5 transducers sled
- Water container and water system
- Mechanical trolley

The multi-channel **i-100** portable ultrasonic instrument is battery operated and is capable of detecting flaws in rail tracks based on A-scan pulse-echo technique. Dual thresholds can be set in each ultrasonic gate in each channel for alarm and coupling monitoring purposes. Transducer assembly and water circulation for ultrasonic coupling are also included. The instrument is capable of withstanding harsh environmental conditions.

The frame of **SRI-10** is robust, made out of light materials and easy to operate on track.

The transducer holders are designed for easy replacement and adjustment of each transducer. Transducer shoes prevent transducer wear-out.

### Typical Configuration

Normal transducer (0°) - used for detecting horizontal cracks in head, web or foot.

70° transducers - used for detecting transverse defects.

35° transducers - used for detecting transverse defects and star cracks.

## ULTRASONIC SYSTEM

The ultrasonic portable instrument i-100 includes 5 channels, 16 gates per channel and is capable to operate for 4 hours. Two batteries (with hot swap replacement) ensure continuous operation.

The inspection equipment utilizes digital hardware technology to achieve high-speed data acquisition of large volumes of input ultrasonic (UT) signals.

The system is PC-based with built-in flexibility for expansion of the number of inspection channels.

Alarm Monitor - The unit is provided with a built-in monitor, alarm display and audible sound for detection of flaws on each channel. Any drop of back wall echo for any individual channel is indicated as well. The readings of an external encoder permit the measurement of flaw size.



\* Specifications are subject to change without notice.

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