

Railway Inspection

ULTRASONIC TRANSDUCERS

MADE IN GERMANY

Ultrasonic Transducers

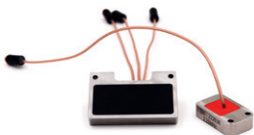



Flaw Detection at Railways Worldwide

Ultrasonic testing methods have been used to test rails in the railway industry for decades. SONOTEC develops and manufactures customized transducers that are used in the quality control of rail systems by service companies worldwide.

Rails are checked at various angles for defects such as cracks to ensure the safety of rail passengers and freight trains. The usual angles for testing are between 35° and 70°.

The ultrasonic test is carried out both in Pulse-Echo and SE mode. This ensures that as many flaw scenarios as possible are tested.

- **DIN EN 12668-2/DIN EN ISO 22232-2**
- **Particularly rugged design**
- **High vibration and shock resistance**
- **Suitable for use with replacement shoes**

Example of Customized Transducers	Center Frequency	Sensitivity	Temperature Range	Connector	Housing Material
	4.00 MHz	-46 dB	-30° – +50° C	Microdot Connector	Stainless Steel
	2.00 MHz	-53 dB	-20° – +50° C	Lemo 0 Series	Brass
	4x 2.25 MHz 2x 5.00 MHz	-45 dB	-20° – +50° C	6x BNC Socket	Aluminium
	4.00 MHz	-45 dB	0° – +60° C	Lemo 0 Series	Stainless Steel

For Following Applications

- **Inspection Trolley**
- **Hand-Operated Inspection Trolley**
- **Measuring Vehicle**

SONOTEC is a leading specialist in ultrasonic measurement technology solution based in Halle (Saale), Germany. SONOTEC has over 25 years of experience in the development and manufacturing of transducers for ultrasonic rail inspection.

Contact and Support

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