



ROLLING ULTRASONIC SCANNER

The RUS is an ultra-portable encoded hand scanner used in erosion, corrosion and thickness testing of curved or flat surfaces like bridges, storage tanks and pipes. Its magnetic wheeled transducer eliminates the need for surface preparation and messy couplant, which increases efficiency and test speed.

RUS Scanner | Portable, Dry Couplant, Hand Scanner

The Rolling Ultrasonic Scanner (RUS) is a portable, encoded, magnetic-wheeled hand scanner designed for the inspection of highly-curved or flat metal structures.

What sets the RUS apart from standard scanners is its spring-loaded, dual-crystal, dry-contact wheel transducer, which eliminates the need for any extended surface preparation or use of messy couplant. This has the potential to cut inspection times in half.

Besides being lighter (by almost a half a pound) and sleeker, the RUS' greatest improvement from its predecessor – the R-Scan – comes in heat immunity. Thanks to its rolling sensor, its high-temperature timing belt, and an encoder shield with vent holes, the RUS has a maximum temperature range of 195°F (90°C), an almost 40-percent increase from the R-Scan.

It works seamlessly with the Pocket UT™ — MISTRAS' intuitive, handheld full C-Scan data acquisition and imaging system — and the Tablet UT™ — MISTRAS' cutting-edge standalone UT testing system with on-board data analysis capabilities and a dynamic touch screen interface. When interfaced with either device, the RUS can

provide data to display A, B, and C-Scan images in addition to thickness data logging input.

The RUS portability and ability to inspect highly-curved (2" minimum diameter), high-temperature structures in a wide range of environments makes it ideal for in-service, spot inspections — when a full-scale inspection of a structure is unnecessary. It's just one option in MISTRAS' broad, versatile Ultrasonic scanner product line.

APPLICATIONS

The RUS is ideal for use on highly-curved, high-temperature, ferrous structures where speed in data acquisition is a must. Applications include, but aren't limited to:

- Storage Tanks – Localized Corrosion Testing
- Pipe – Localized Corrosion Testing
- Bridges – Gusset Plate UT Inspection and Thickness Testing

FUNCTIONS

Typical functions for the RUS include:

- Thickness Testing
- Thickness Data Logging
- Erosion/Corrosion Testing

BENEFITS

- Increases efficiency and results since dry-contact transducer eliminates need for any sort of in-depth surface preparation and/or couplant application
- Magnetic wheels offer maximum versatility because of its ability to inspect highly curved (two-inch minimum diameter) and/or flat surfaces

KEY FEATURES

- Works on surfaces up to 195°F (90°C) — an almost 40 percent increase from its predecessor — thanks to high-temperature timing belt, rolling sensor, and an encoder shield with integrated vent holes
- Includes cable for seamless interface with both Pocket UT™ and Tablet UT™ systems

SPECIFICATIONS

Total Weight:	1.07 lbs.
Dimensions:	4.5" L x 2.2" W x 2.3" H
Chassis:	Lightweight, hard anodized aluminum
Wheels:	4, magnetic, 1" diameter
Transducer:	5 MHz dual-crystal dry-contact
Encoder Resolution:	< 0.005
Supported Devices:	Pocket UT™ & Tablet UT™

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