

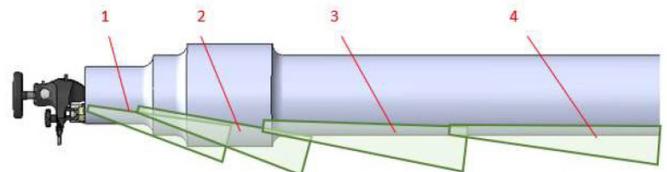


Solid Axle Manual Tester – SAMT

Front-face ultrasonic inspection of solid rail axles

Technical specifications

Results display	Combined B-Scan of all groups in preparation. Full A-Scan recording possible.
Mechanics	Magnetic coupling within the center bore of the axle via an exchangeable cone. Manual probe rotation over approximately 370°. Position related data recording thanks to an integrated encoder. Maximal circumferential resolution is 1 (one) degree.
Probe	Phased-Array transducer with 32 or 16 elements in 2 or 4 MHz with a 0° wedge. Both can be replaced by the user.
Inspection range	55% of the axle length from one end (typical 1,2m)
Ultrasonic coupling	Conventional couplant
Inspection time	Typical less than 5min for an entire axle (2 tests), depending on the UT-Requirements
Connectors	UT: Tyco 2m cable; Encoder: Lemo 7pin connector.
Weight	Mechanics: less than 1,0kg (2.2lb) including probe and wedge.



The SAMT mechanics with integrated encoder a specific UT probes is especially designed for interaction with the Mentor UT instrument to build a complete system:

- Full A-Scan recording to internal memory (export via USB possible).
- Circumferential resolution as an editable instrument setting ($\geq 1^\circ$).
- Mentor UT grouping functionality allows to eliminate non-relevant portions of Scan from the display.
- Storage of full settings files for different axle designs in either instruments memory or on USB devices.
- Result documentation via integrated reporting function of the Mentor UT.
- Mentor Create allows to generate tailored inspection workflows per axle design.



Order numbers

0600512 SAMT Basic 4MHz System	0600520	Probe; SAMT 4 PA32
	0162476	Cone Kit; SAMT 90°
	0162459	Wedge; SAMT 100-180 mm
	0162460	Wedge; SAMT 90-100 mm

Additional accessories

0600558	Probe SAMT 4 MHz PA16
0600585	Probe SAMT 2 MHz PA16
118M1844	Presentation Module (Mentor UT)
Mentor-UT-ADAP32-T	Adapter; Mentor UT 32ch / Tyco