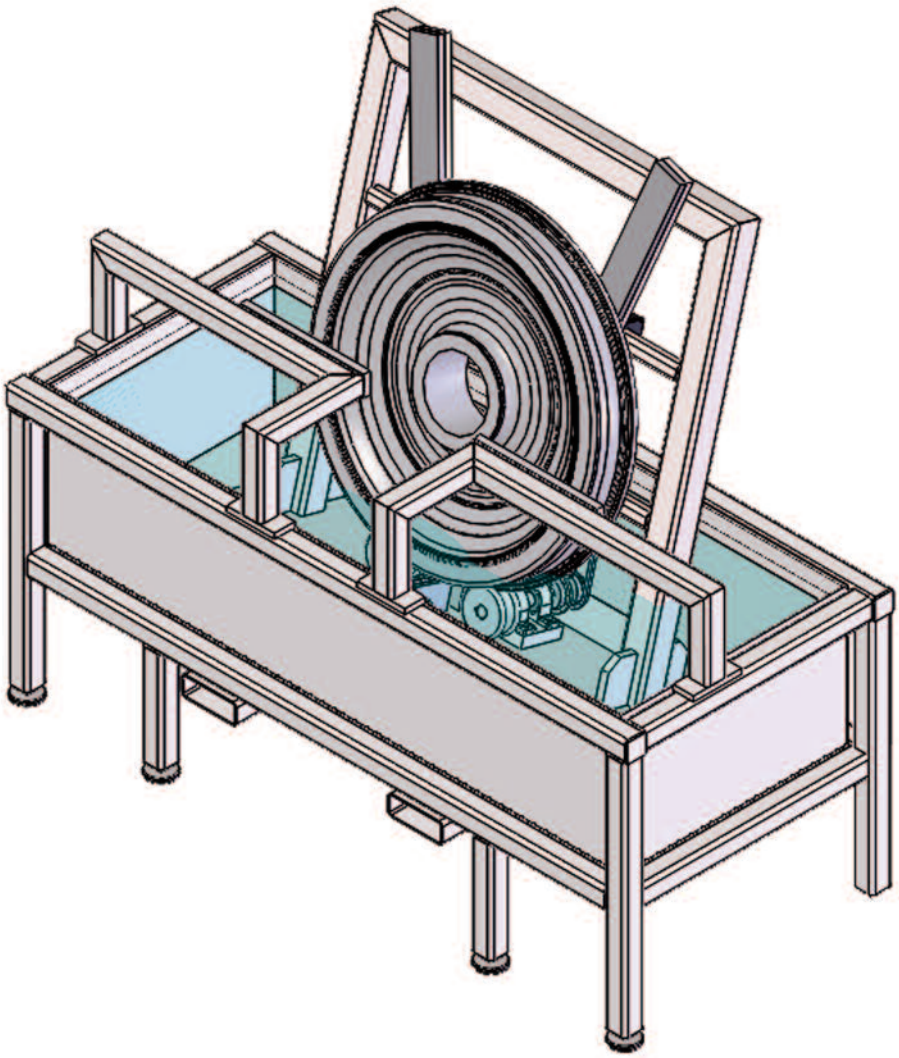
MAC®
Magnetic Analysis Corp.

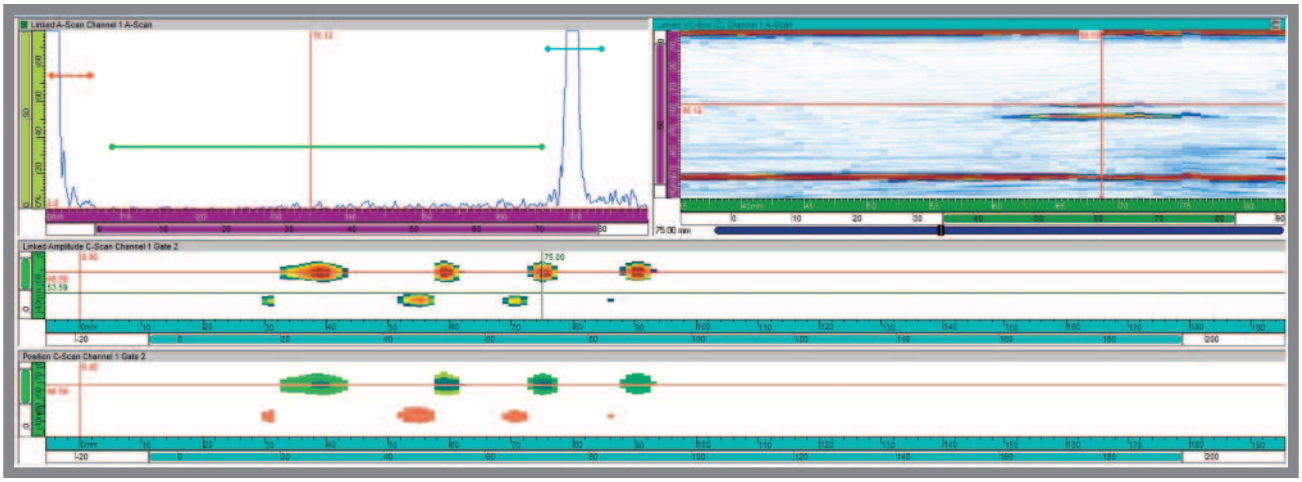
Echomac® PA Automated Wheel Tester

Robust, Cost Effective UT Phased Array Tank for Batch Rail Wheel Inspection



Convenient Accurate Testing of Wheel Treads & Face

MAC's new Echomac® PA Wheel Tester for batch testing ensures complete inspection of the wheel in a single rotation. Two linear phased array probe units inspect the tread and face, simultaneously. The system's flexibility allows operation on the large range of wheel geometries, including European and US, and different mechanical handling configurations typically found in this inspection application.



Typical Screen Presentation of UT Wheel Test

Echomac® PA Wheel Tester Features

- 19" Touch Screen
- Step by Step screens for the operator
- Bar Code Entry and auto select setup
- Alarm for loss of interface, backwall drop, defect detection. (Visual, Audio and On screen)
- C-Scan imaging of test results (Top View)
- Position Encoded C-scans to locate defects on the wheel circumference
- Offline Data Analysis software for Level 3
- Digital inspection data can be saved per wheel serial number for future reference.
- Two 128 element Linear Phased array probes in immersion.
- Meets or exceeds national and international standards like EN13262, ISO5948 or AAR M-107/M-208
- Rim inspection radial (Tread) Per EN 13262 with defect sizes of 1,2,3 mm FBH and untested depth of 5mm* while complying with ISO 5948.
- Rim inspection axial (Face) Per EN 13262 with defects sizes of 1, 2, 3 mm FBH and an untested depth of 10mm while complying with ISO 5948
- Monitors the Back wall Echo per EN 13262 for a -4 dB drop.

**Needs to be forged wheel with good surface finishing*

The new Echomac® PA Wheel Tester is designed and manufactured by Magnetic Analysis Corp., a US based leader in supplying NDT instruments, systems and service for over 90 years.

www.mac-ndt.com

Magnetic Analysis Corp.
103 Fairview Park Drive
Elmsford NY 10523 USA

MAC® Magnetic Analysis Corp.

Tel: 800-463-8622 ~ 914-530-2000
Fax: 914-703-3790
info@mac-ndt.com