As a producer of welded austenitic tubes, you need to deliver 100% quality. But up to now, detecting defects on the inside surface of weld seams has been costly and complicated, calling for involved after-production inspection using X-ray equipment or borescopes.

With TMI, PRÜFTECHNIK now offers a new inline testing method at low cost where ultrasonic inspection is not applicable. We install a specially developed external probe and testing unit in your production line that enables you to test, mark defects and record results reliably.

The smart and cost effective alternative!

- **Smart:** TMI can locate defects throughout the entire wall thickness
- **Cost effective:** No consumables such as films or coupling agents, and no safety fixtures
- **Thorough:** TMI inspects the entire weld seam length on every single test piece
- **Improved quality:** TMI provides instant feedback on the production process
- **Cost-saving:** TMI inspects all tubes throughout the production process, reducing the use of X-ray inspection to repaired tube sections only

Typical installation in calibration section of a tube mill
A deep look at defects

PRÜFTECHNIK’s new thick material inspection (TMI) is based on the well established EDDYCHEK® technology in combination with new remote field principles.

TMI can inspect austenitic steel, aluminum and brass tubes with a thickness of up to 12.5 mm, and is approvable by standardization organizations.

What TMI can do for you

- Defect marking
  If a section of the test piece is defective, it is marked for repair.

- Bad part sorting
  Pieces in need of repair are sorted out. They can then be reworked and retested using X-rays.

- Operator alert
  Operators can be alerted to a consistently poor weld and can then take immediate corrective measures.

- Test reports
  Test reports can be saved or printed out for use during repair or for later verification of testing.

EDDYCHEK® 5 TMI technical data

- Hardware: EDDYCHEK® 5 TMI
- Inspection speed: Up to 12 m/min
- Penetration depth: Up to 12.5 mm (larger wall thicknesses upon request)
- Display: Single channel differential

EDDYCHEK® 5 TMI application fields

- Production type: Longitudinal seam-welded tubes; welded seams can be tested throughout their volume
- Materials: Austenitic steel, aluminum, brass
- Production line: Inline production

EDDYCHEK® features in detail

For more information on the EDDYCHEK® 5 tester, please ask for this brochure.