

EDDYCHEK® 5 TMI

Thick Material Inspection

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

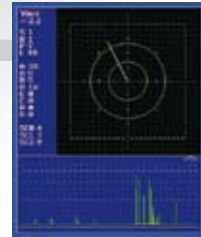
PRÜFTECHNIK's new thick material inspection (*TMI*) is based on the well established EDDYCHEK® technology in combination with new remote field principles.

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



Typical defect

This cross section shows an inside root defect on a weld seam, invisible from the outside.



Defect signals

A defect causes a signal that can be evaluated for size. A significant defect is marked, the faulty part is sorted out and the operator is alerted.

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 <i>TMI</i> |
| • 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.



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