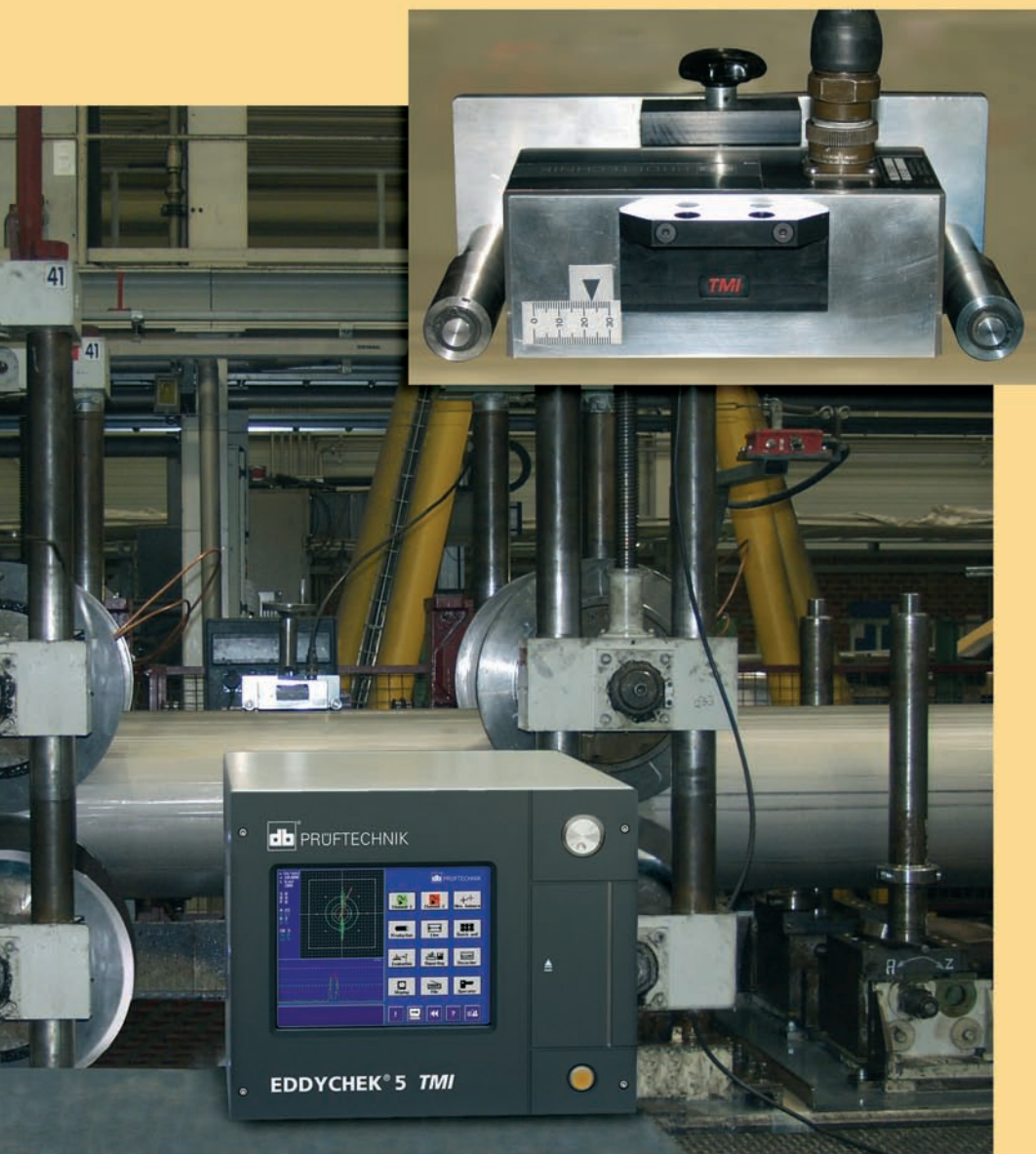


# Thick Material Inspection

## EDDYCHEK® 5 TMI

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.



### EDDYCHEK® 5 TMI 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

**Weld seam inspection**

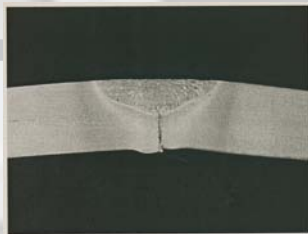
**Inline testing**

**Process monitoring**

# A deep look at defects

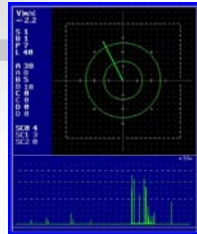
PRÜFTECHNIK's new thick material inspection (TMI) is based on the well established EDDYCHEK® technology in combination with new remote field principles.

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 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.



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