

Ready for the future,
caring for the customer

Eddy Current Probes

TPROBE[®]

Eddy Current Array Probe
for SG Inspection



 **tecnaatom**
www.tecnaatom-ndt.com

CE

TProbe Eddy Current Array Probe for SG Inspection

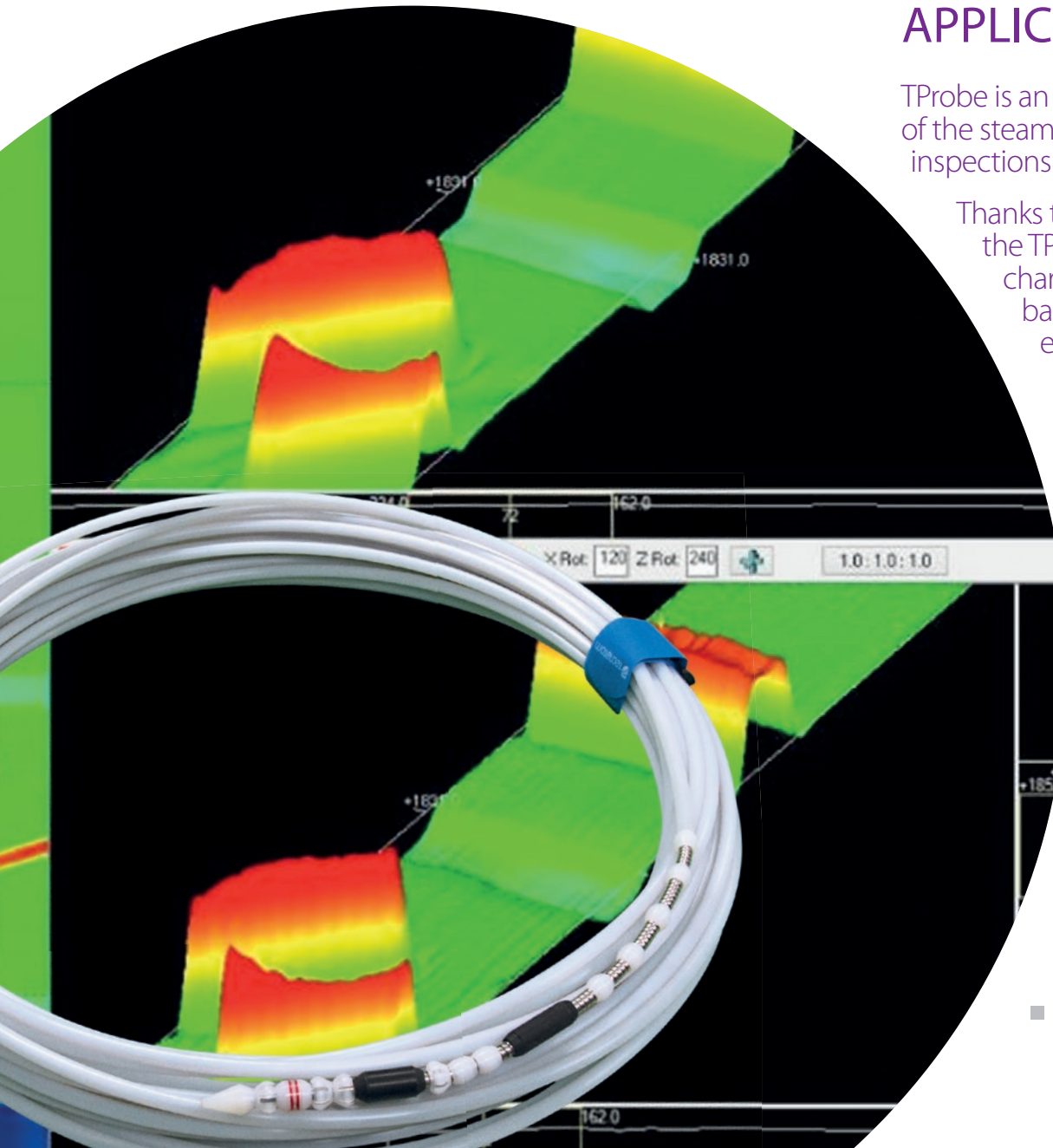
APPLICATION

TProbe is an eddy current array probe + bobbin created for the inspection of the steam generators. Its special design is made for fast "one pass" inspections and small u-bends.

Thanks to its two working modes for axial and circumferential flaws, the TProbe guarantees high performance for detection and characterization. Furthermore it counts with the last technology based on flex thin-film that together with advanced boarded electronic ensures great performance, signal stability and excellent signal to noise relationship.

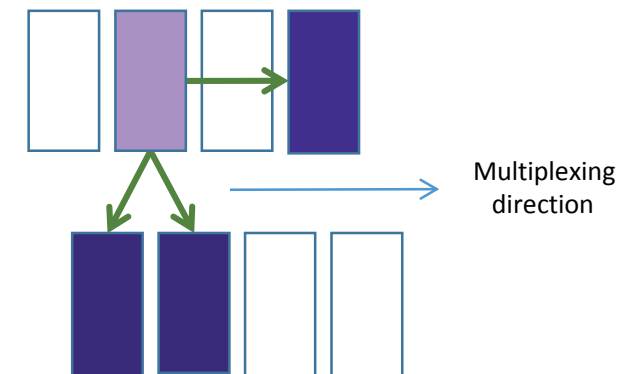
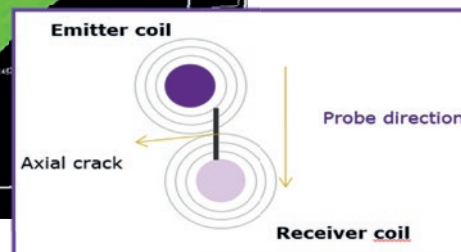
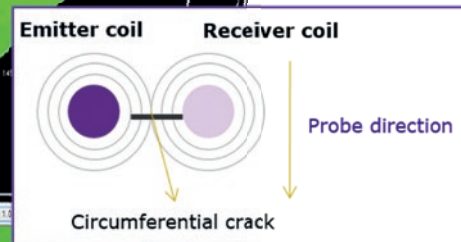
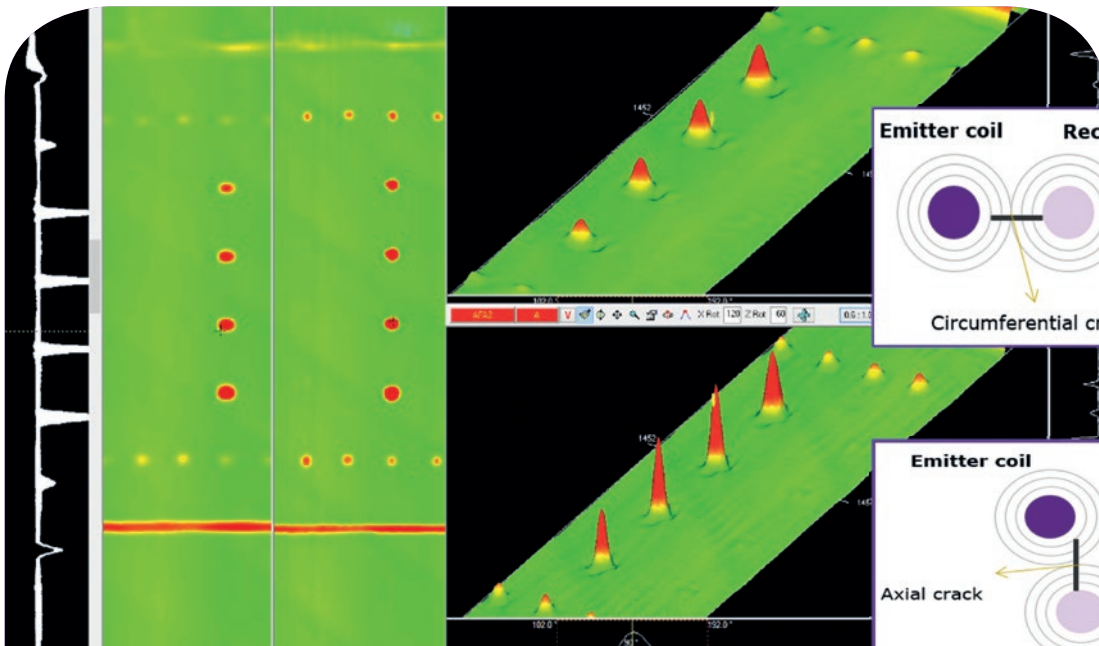
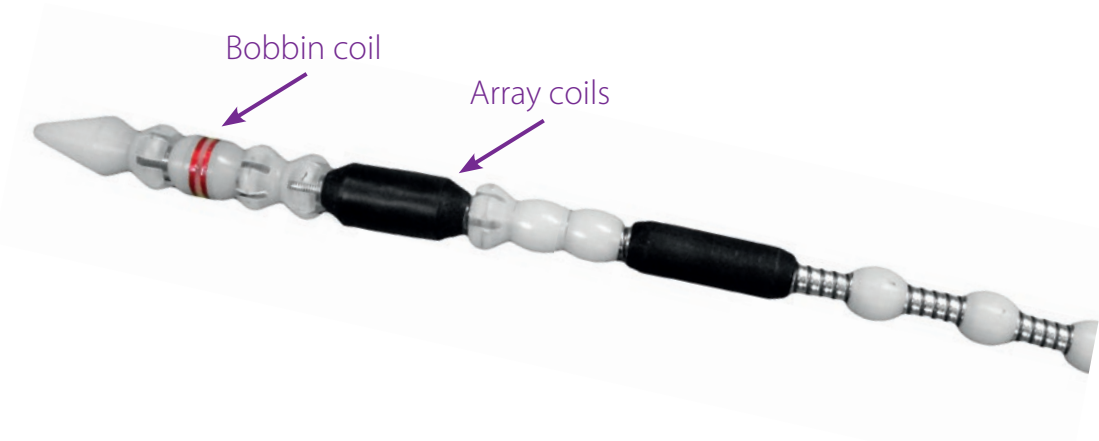
Proven Advantages

- **Bobbin coil + array coils.** Split functionality in data analysis software allows analyzing both sensors individually.
- **Full length tubes.** "One pass" inspections and with capability for small U-Bend.
- **High sensitivity.** Two operation modes in the array ensures good detection and characterization for axial and circumferential flaws.
- **Fast calibration process.** Rapid signal calibration. Filters, channel mixes, many signal processing algorithms etc.
- **Easy and simple signal analysis.** Tprobe together with Teddy software constitute a robust inspection system.
- **Thin film technology.** Its printed circuit reduces drastically the number and length of the cables, improving signal/noise relationship.
- **Speed probe up to 1000 mm/s.** Reduces inspection time which results in cost saving.
- **High capability of defect detection:** Axial and circumferential cracks, pitting, fretting, thinning, denting, deposits, laps, wear, volumetric flaws, etc.



PROBE FEATURES

- Flexible body with two sensors
- Bobbin coil:
 - Standard Absolute/Differential Bobbin
- Array of coils sensor:
 - Printed circuit coils in flex PCB
 - On board electronic for multiplexing and signal amplifying
 - Transmitter-Receiver mode
 - Two Modes: Axial and Circumferential
 - Two rows of 16 elements
 - Two coil emitters and six coil receivers work at the same time slot.
- Operating frequencies range: 50 KHz – 800 KHz

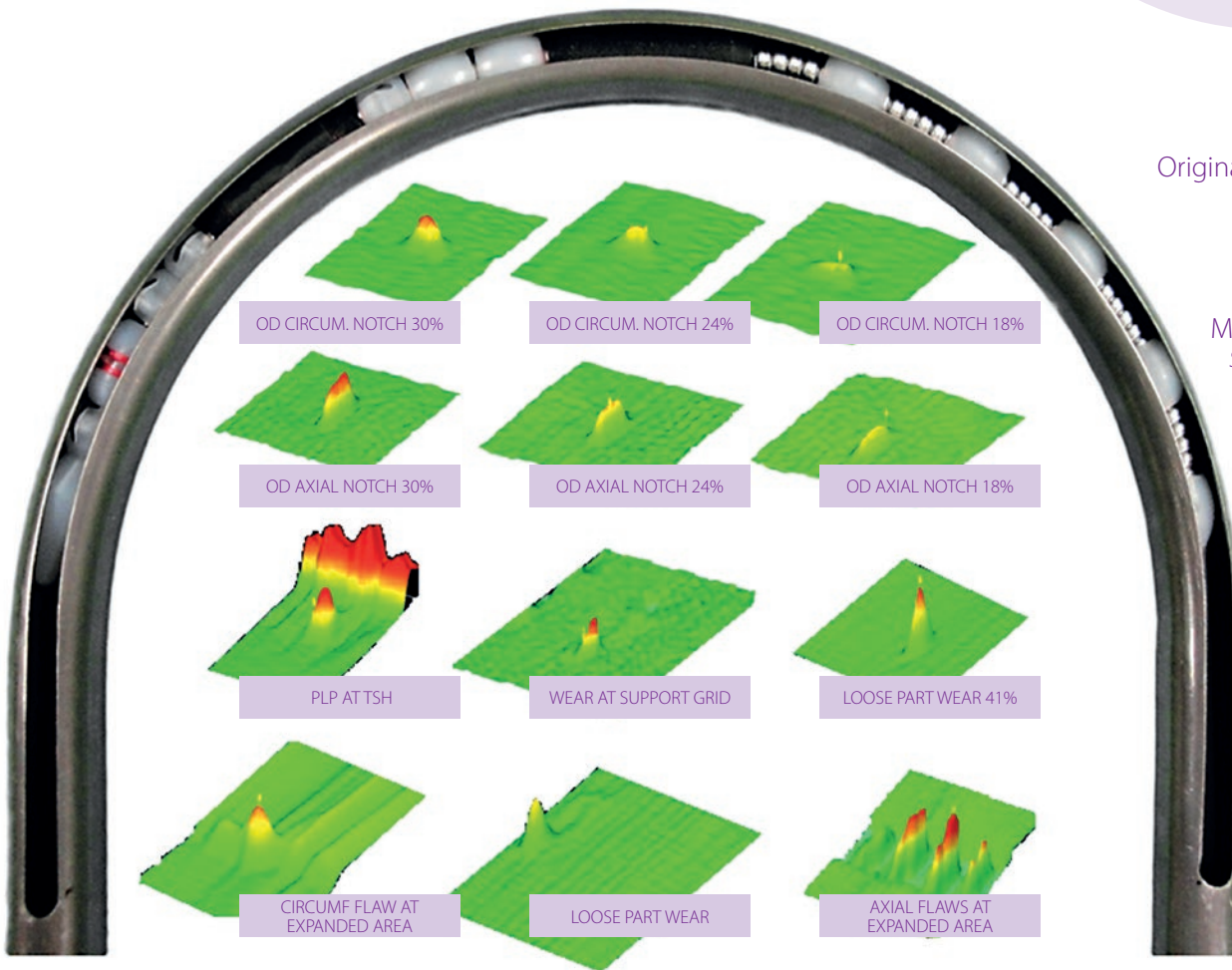


Tprobe Eddy Current Array Probe for SG Inspection

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High capability of defect detection

The Tprobe has a high capability of defect detection for different kind: Axial and circumferential cracks, pitting, fretting, thinning, denting, deposits, laps, wear, volumetric flaws, etc.



EC SYSTEM COMPATIBILITY



Analysis SW: **TeddyEVA**

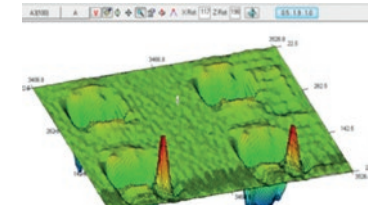
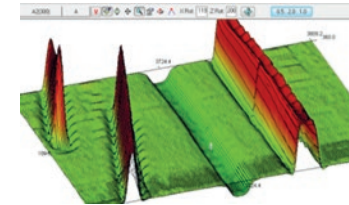


Acquisition SW: **TeddyACQ**

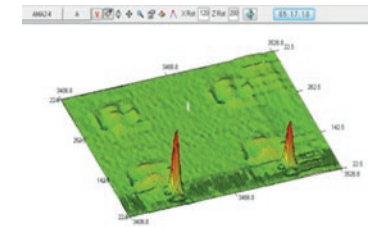
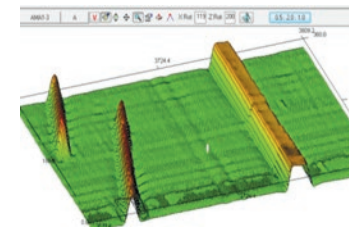
ECT TESTER ETBOX8I

- Multi-channel and multi-frequency capabilities. Up to 512 channels.
- Bobbin, MRPC, Multi-coil & Array
- Multiplexer options.

Original Channel



Mix channel
Support plate
removed



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