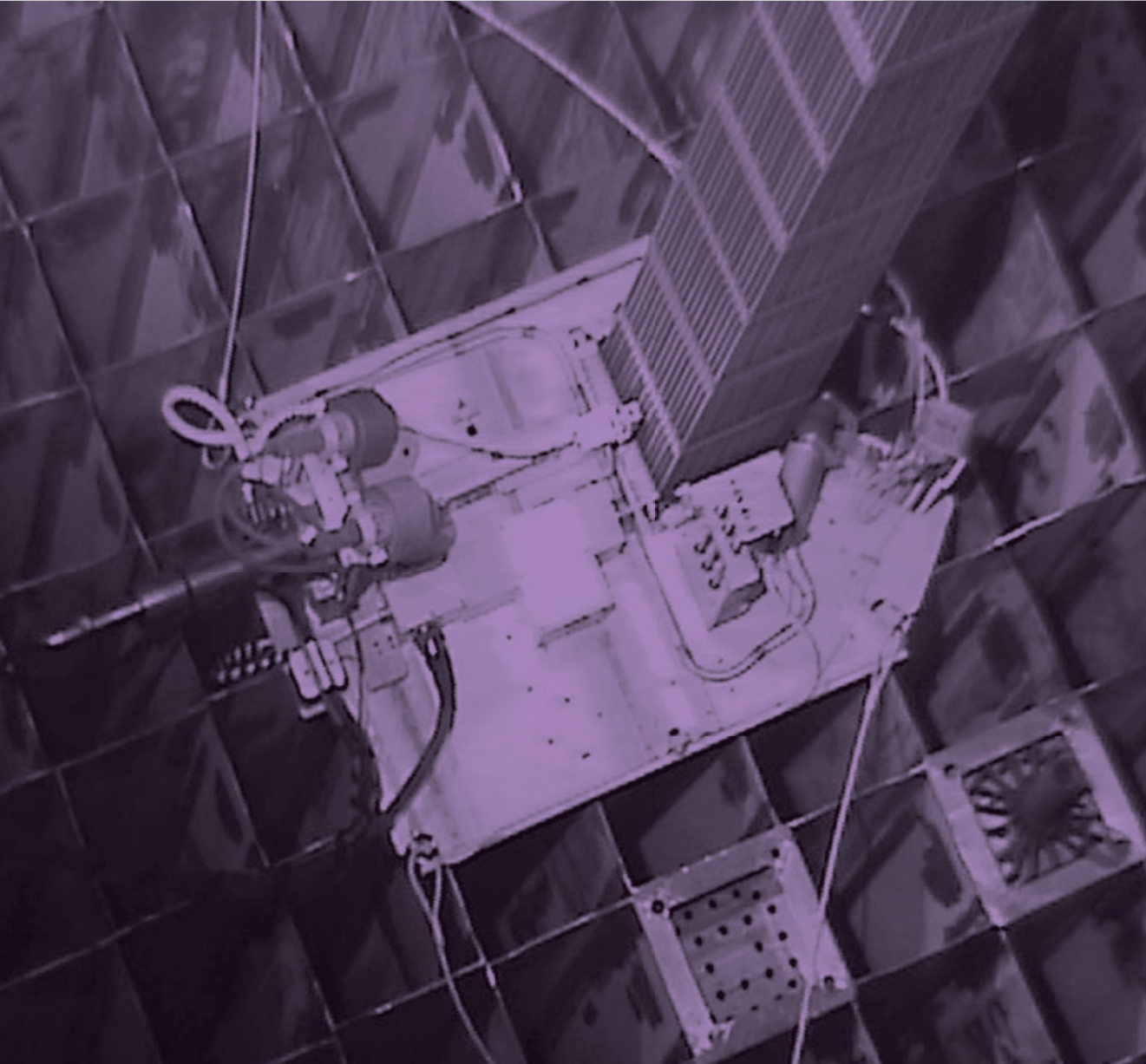


Ready for the future,  
caring for the customer



Eddy Current Products

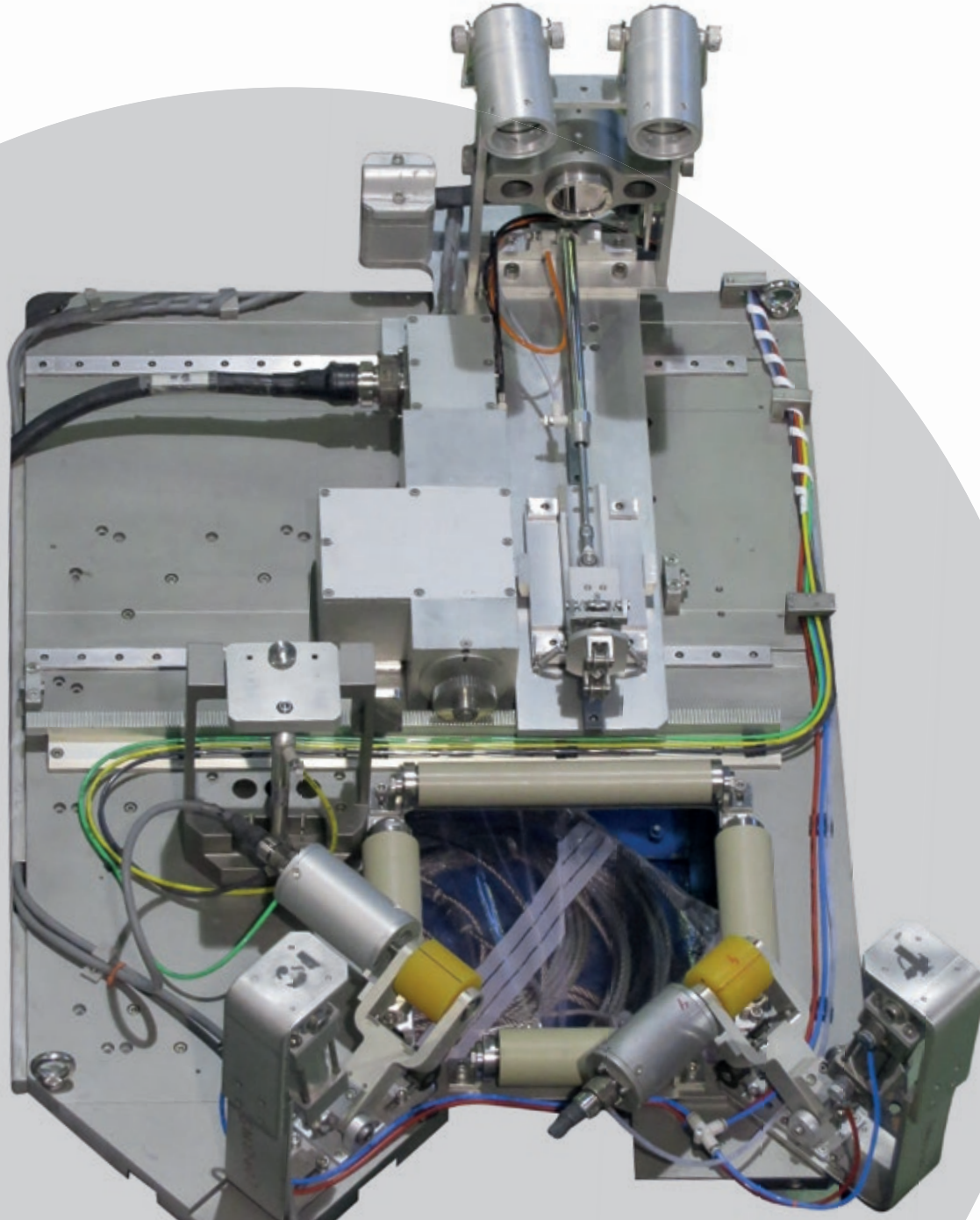
# SICOM COR<sup>®</sup>

Oxide Layer and  
Visual Inspection  
for Spent Nuclear Fuel

 **tecnatom**

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CE



## APPLICATION

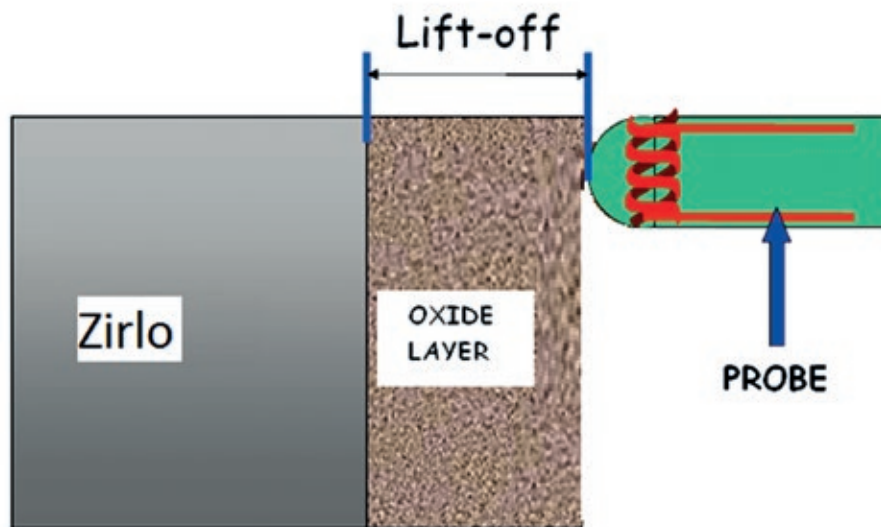
- Oxide Layer measurement on peripheral rods
- Visual Inspection:
  - F.A. Integrity
  - Gap between rods
  - Support the inspection

## SYSTEM DESCRIPTION

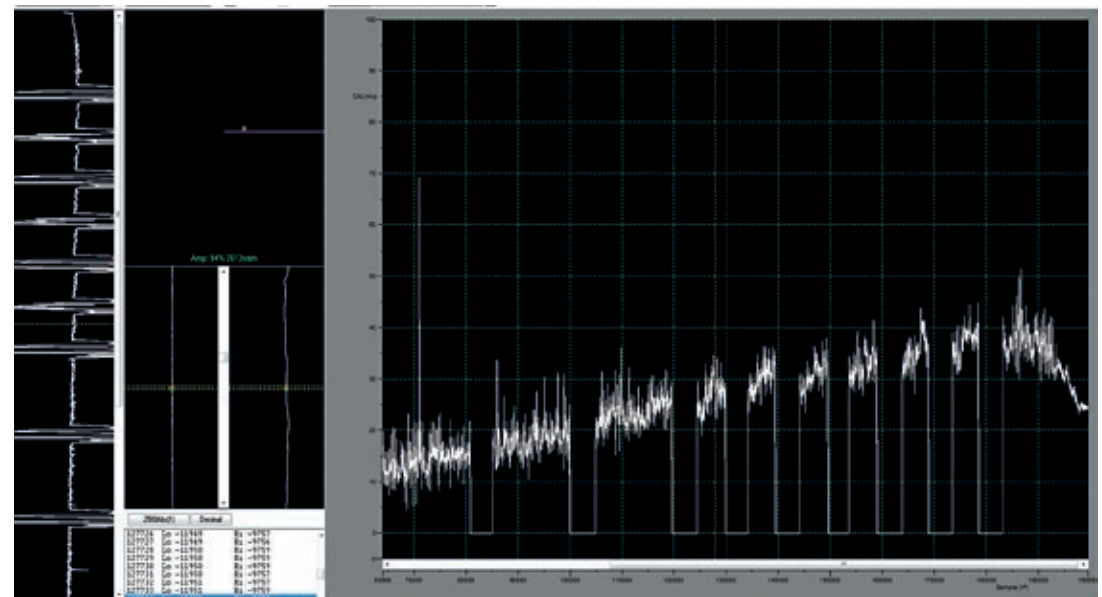
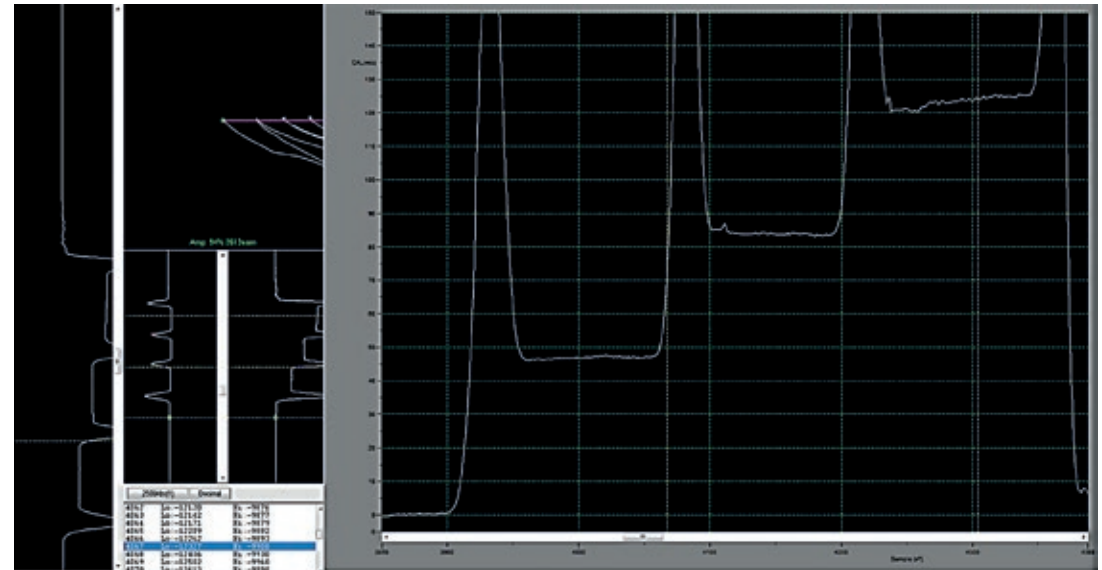
- Equipment place on empty racks in the SFP (3 racks)
- Centering devices to center on two racks
- Roller devices to center the FA
- Encoded inspection module displacement
- Probe holder designed to guaranty the probe centering in the rod during the axial displacement
- Pneumatic actuator to retract the probe
- High radiation tolerant camera
- Up to three calibration pattern
- Two axial encoders

## EDDY CURRENT INSPECTION

Oxide layer measurement on peripheral rods



Measurement of lift-off effect

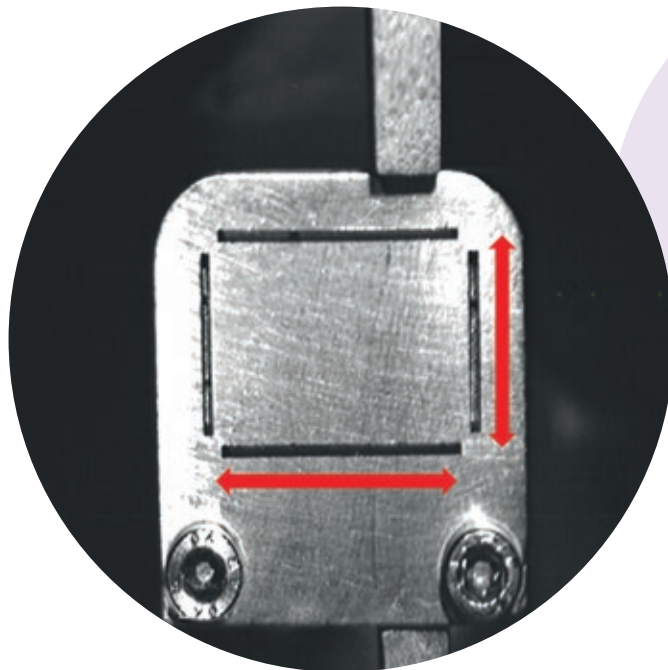
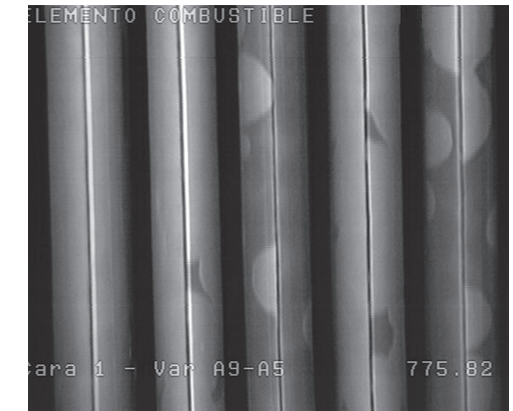
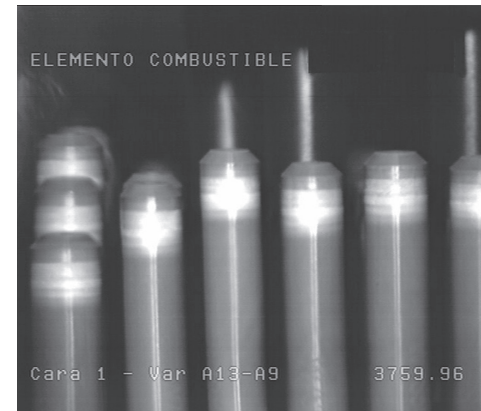


## EDDY CURRENT SYSTEM

- Compatible with portable eddy current instrument ETbox2i
- SW suite: Teddy GEN with specific configurations for calibration and acquisition
- Pancake probe of  $\varnothing 9$ mm and sapphire crystal protection
- Measuring range : 0 to 300  $\mu$ m
- Average precision : 5  $\mu$ m

## VISUAL INSPECTION

- ID of the Assembly
- Assembly integrity check
  - Nozzles
  - Spring
  - Rod plugs
  - Grids
  - Rod surface
- Gap between rod measurement
- Rod displacement measurement
- Support for the oxide layer inspection



## SYSTEM CALIBRATION

- Calibration based on pixel / mm relationship on a certified plate
- Fixed focus and zoom
- Off-line digital image processing



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