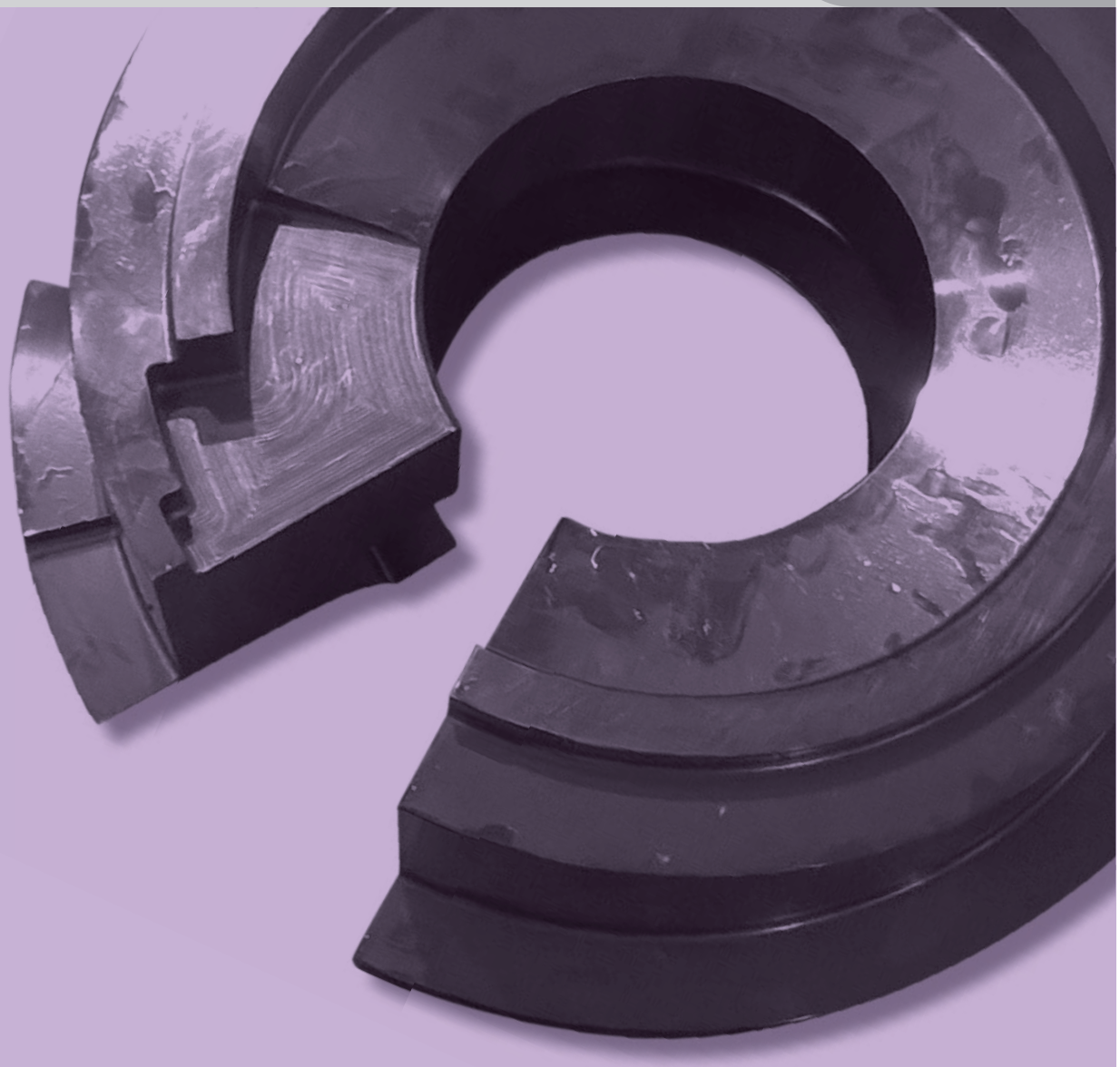
Ready for the future,
caring for the customer



Inspection Solutions

SICOR®

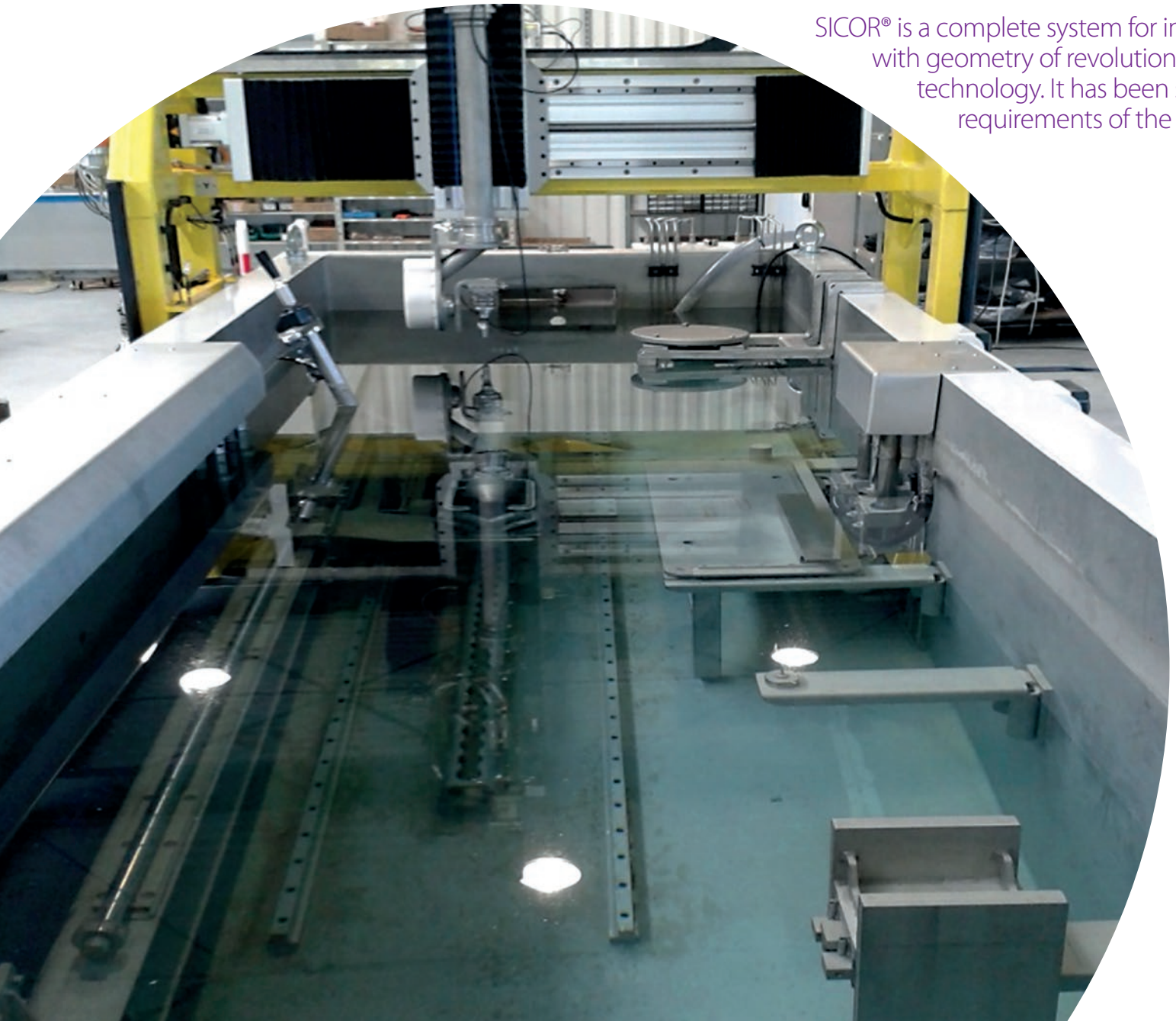
System for inspection
of revolution components

tecnatom

www.tecnatom-ndt.com

CE

SICOR A system for inspection of revolution components



SICOR® is a complete system for inspection of metallurgic components with geometry of revolution. It is completely based on Tecnatom technology. It has been specifically designed to meet the strong requirements of the metallurgic market.

Based on standard products of TECNATOM

- **UT Software**: InspectView
- **UT Hardware**: SONIA FPR8A
- **Control**: SIROCO-Multi
- **Water tank**: Metalscan BACUS

Applications in metallurgic sector

- Aerospace engine components, railway, gas turbines

Certification is key

- SNECMA DMC0032, GE, Rolls-Royce

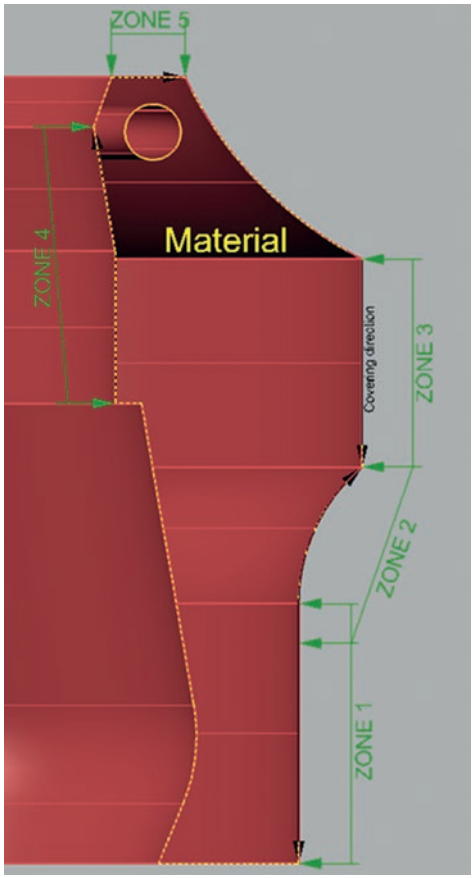
Specific application specific tools

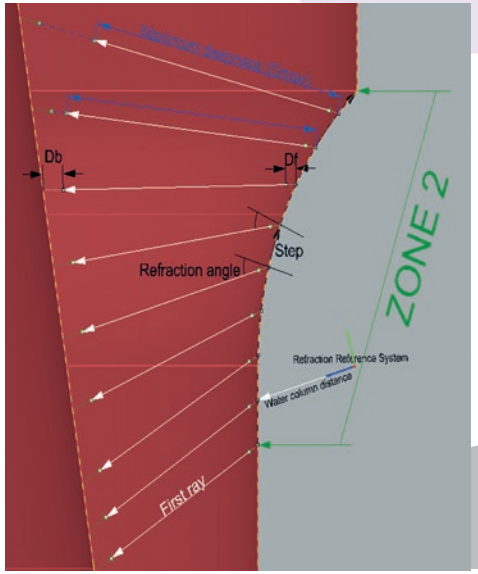
- Adapted to factory workflow
- Focus on productivity

LET USER FOCUS ON THEIR OWN WORK

Automatic calculation of UT parameters

- In conventional systems, Level III expert must think of UT parameters for each zone of the part
- With SICOR, they work with profiles, zones and ray tracings
- SICOR takes care of UT parameters

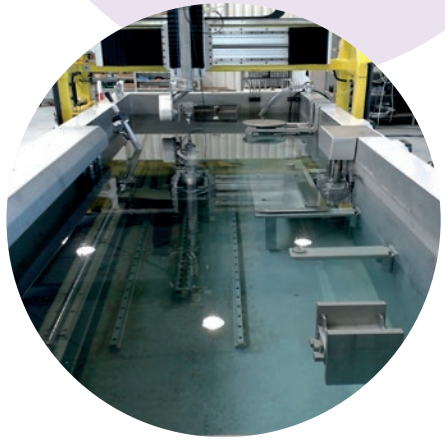




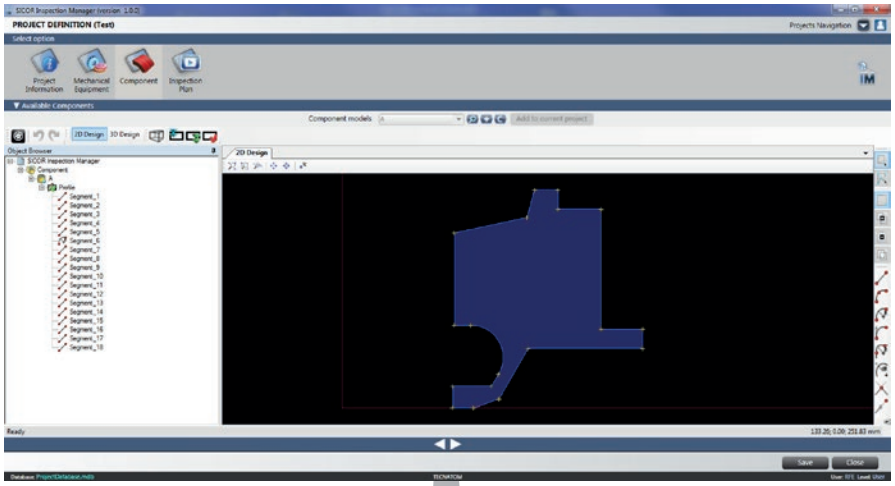
Norm requirements
Curvature correction
Part
Ray tracing
Coverage

SICOR translates to UT terms

Pulse Repetition Frequency
Linear speed
Trajectory
Machine control
Gain
Angular speed

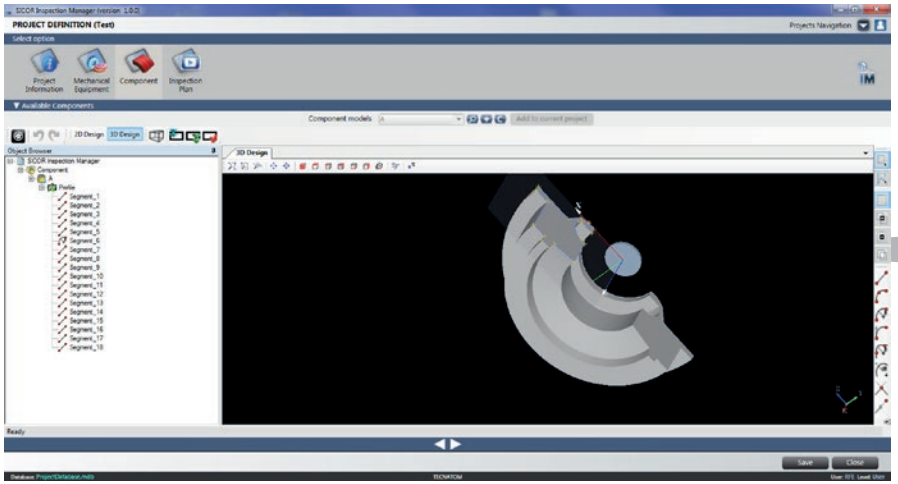


SICOR A system for inspection of revolution components



Part profile

3D shape



SPEAKING THE FACTORY LANGUAGE

Beyond conventional UT systems

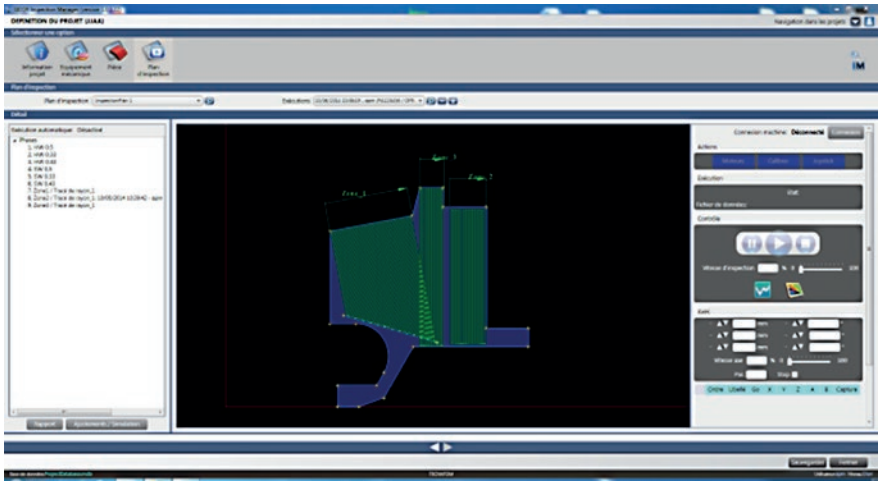
1 **With SICOR, Level III expert defines inspection plan based on**
- Profile definition
- Ray tracings

2 **SICOR computes ultrasonic parameters**

3 **Operator executes inspection for each part**

4 **SICOR automatically performs all checks and on-line adjustments according to norm requirements**
- Measurement of sound speed
- Automatic probe position check
- Automatic calibration check and adjustment

Zone definition



TECHNICAL FEATURES

Focus on productivity

Faster inspection

- Fast helix-type inspection
- Automatic gain correction based on curvature
- Automatic acquisition field calculation
- Automatic maximum PRF calculation

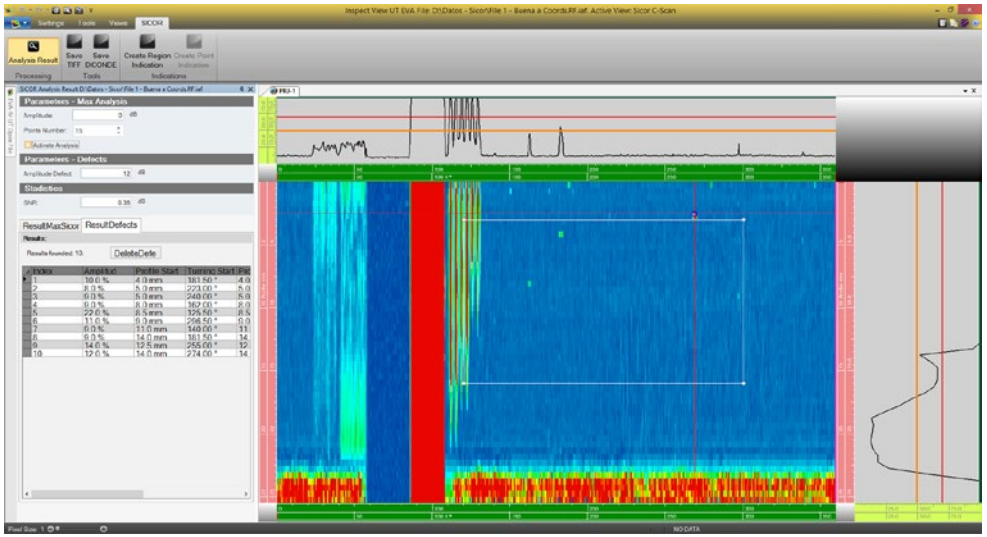
Easier inspection planning

- Zone and ray-tracing definition
- Automatic trajectory calculation
- Dynamic simulation & collision detection

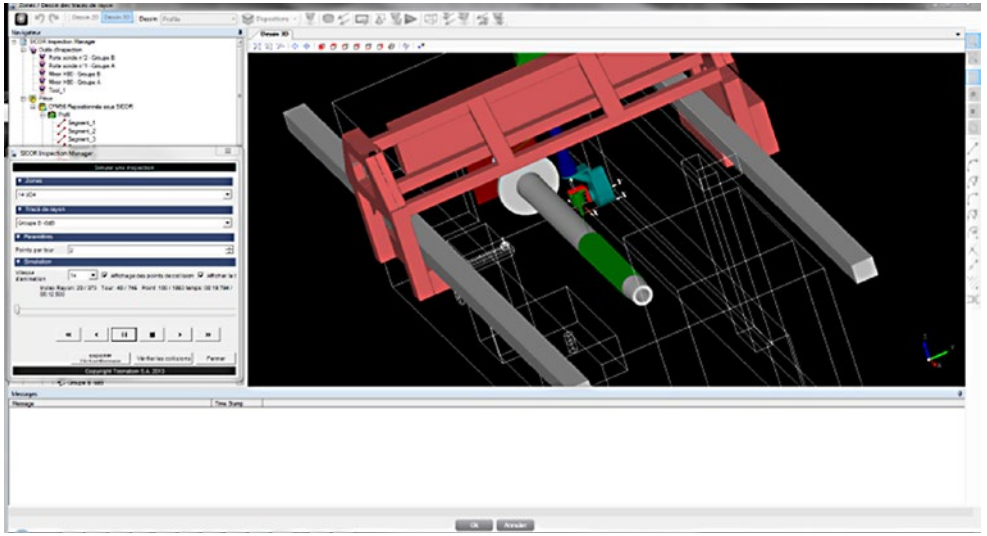
Better analysis and evaluation

- Go-to point and re-test operations
- Defect-Lock movement & scan
- TIFF/DICONDE compatibility
- Dynamic A-Scan, automatic threshold detection, shot noise removal

Shoot noise removal



Trajectory simulation



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