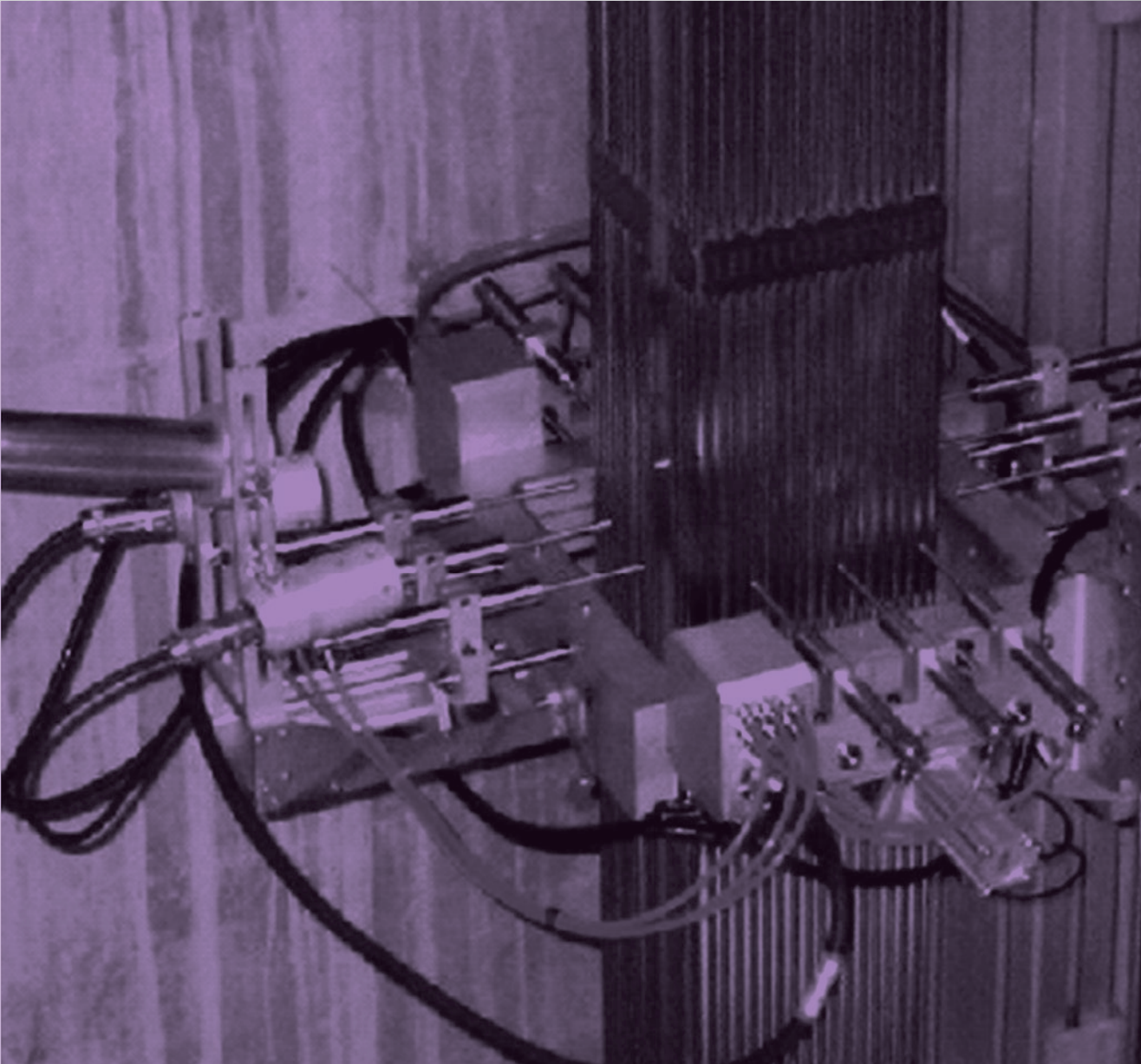


Ready for the future,
caring for the customer



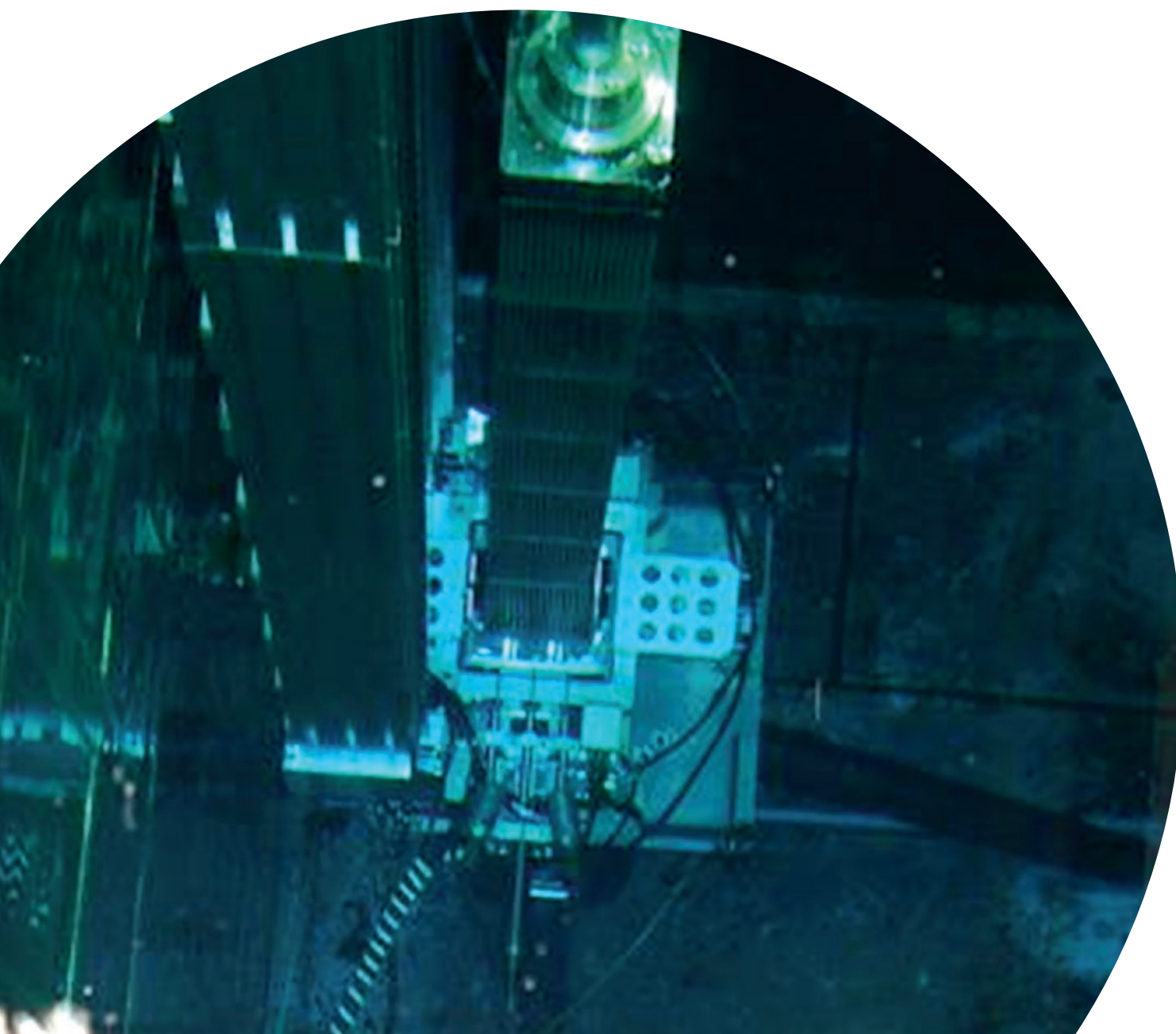
Eddy Current Products

SICOM DIM[®]

Dimensional
Characterization of
PWR Fuel Assemblies

 **tecnatom**
www.tecnatom-ndt.com

CE



MAIN FEATURES

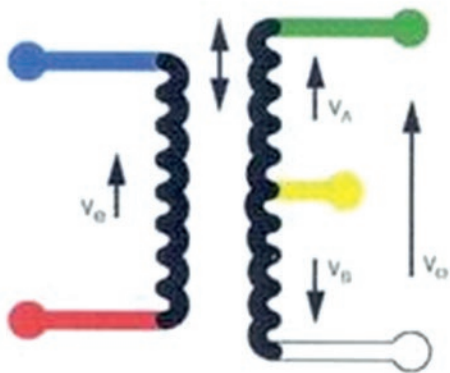
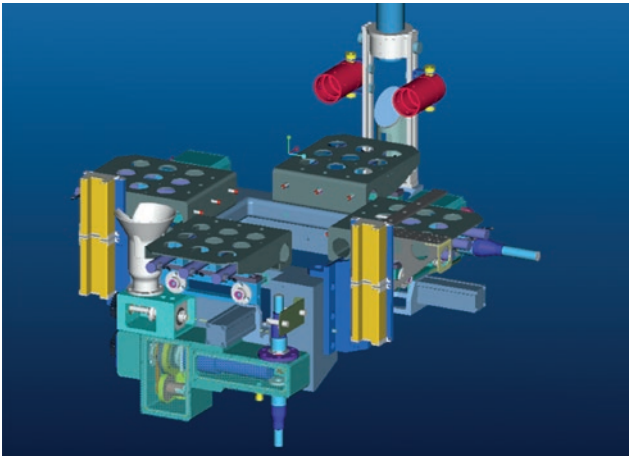
- Designed for characterization of fuel assemblies (FA) PWR
- Independent robust system with capacity to support FA
- Specific design to work underwater in a radioactive environment
- Frame with 12 LVDT (displacement linear transformers) arranged 360° around the FA
- High radiation tolerant cameras for dimensional inspections support

PERFORMING

- Acquisition time of about 10 minutes per FA
- Visual identification of FA
- Performing calibration with a reference a dimensional block and FA dummy
- Quick set-up for acquisition
- Automatic and configurable report after acquisition

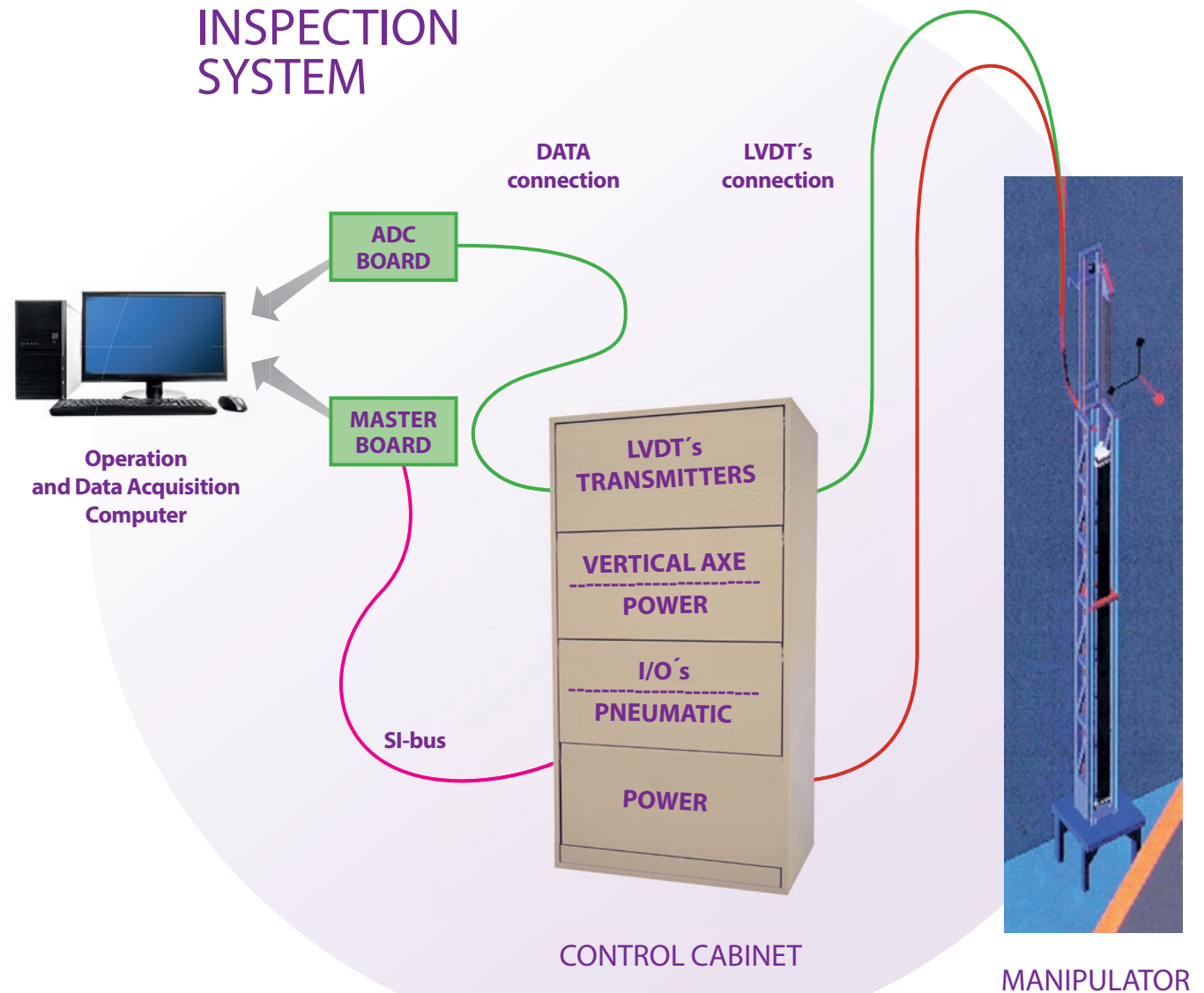
LVDT'S MODULE DETAIL

LVDT's are able to detect slight changes converting them into voltage changes. An adequate calibration provides the measurement along the axial scanning



LVDT: Linear Variable Differential Transformer

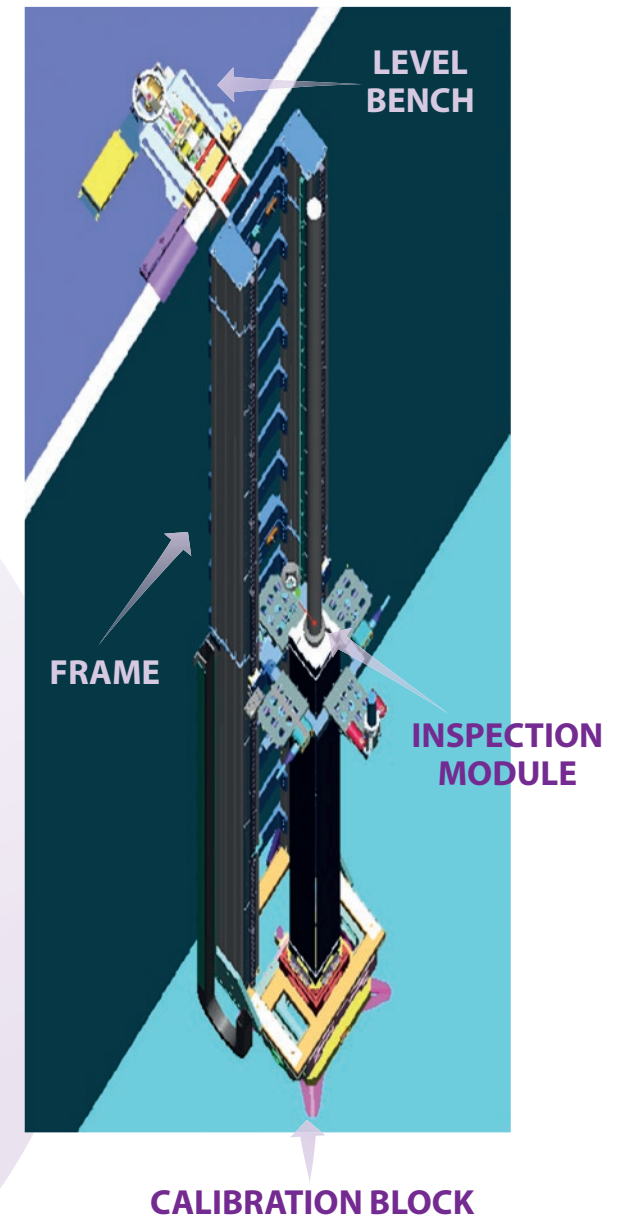
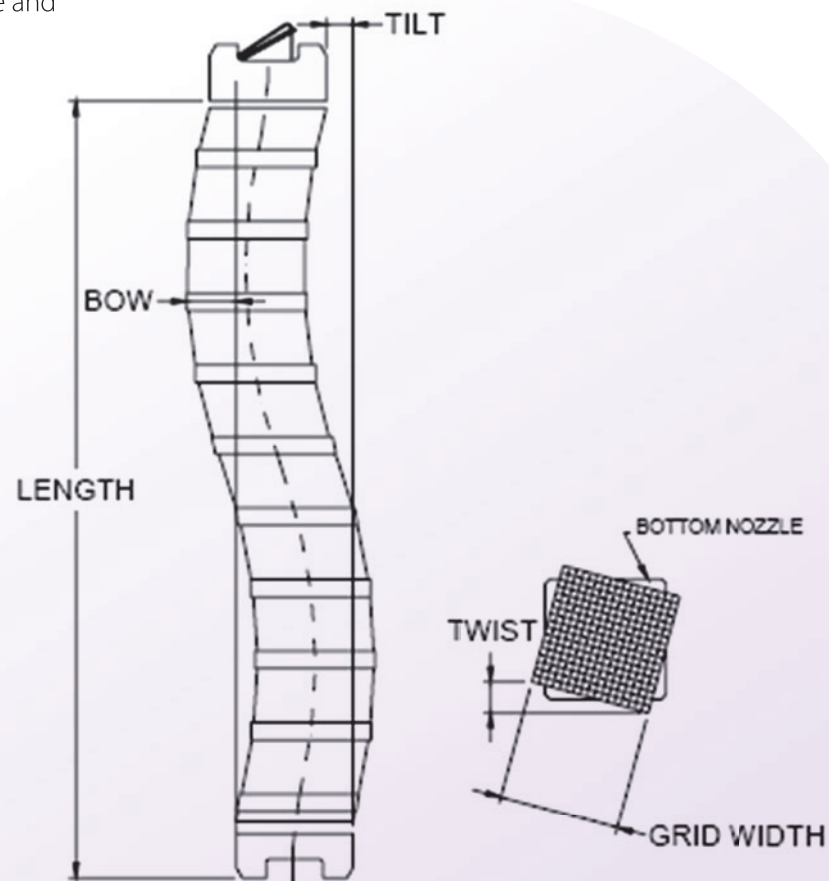
INSPECTION SYSTEM



MEASURED DIMENSIONS

- Full length measurement of F.A.
- Grill width measurements.
- Deviations from vertical axis on every grid.
- F.A. Twist determination with respect to the lower nozzle.
- Upper nozzle inclination with respect the lower nozzle.
- Gap between upper nozzle/lower nozzle and

Measurement	Precision (mm)
Tilt	± 1.0
Length	± 0.5
Grid width	± 0.2
Bow	± 0.4
Twist	± 0.4



ACQUISITION SOFTWARE

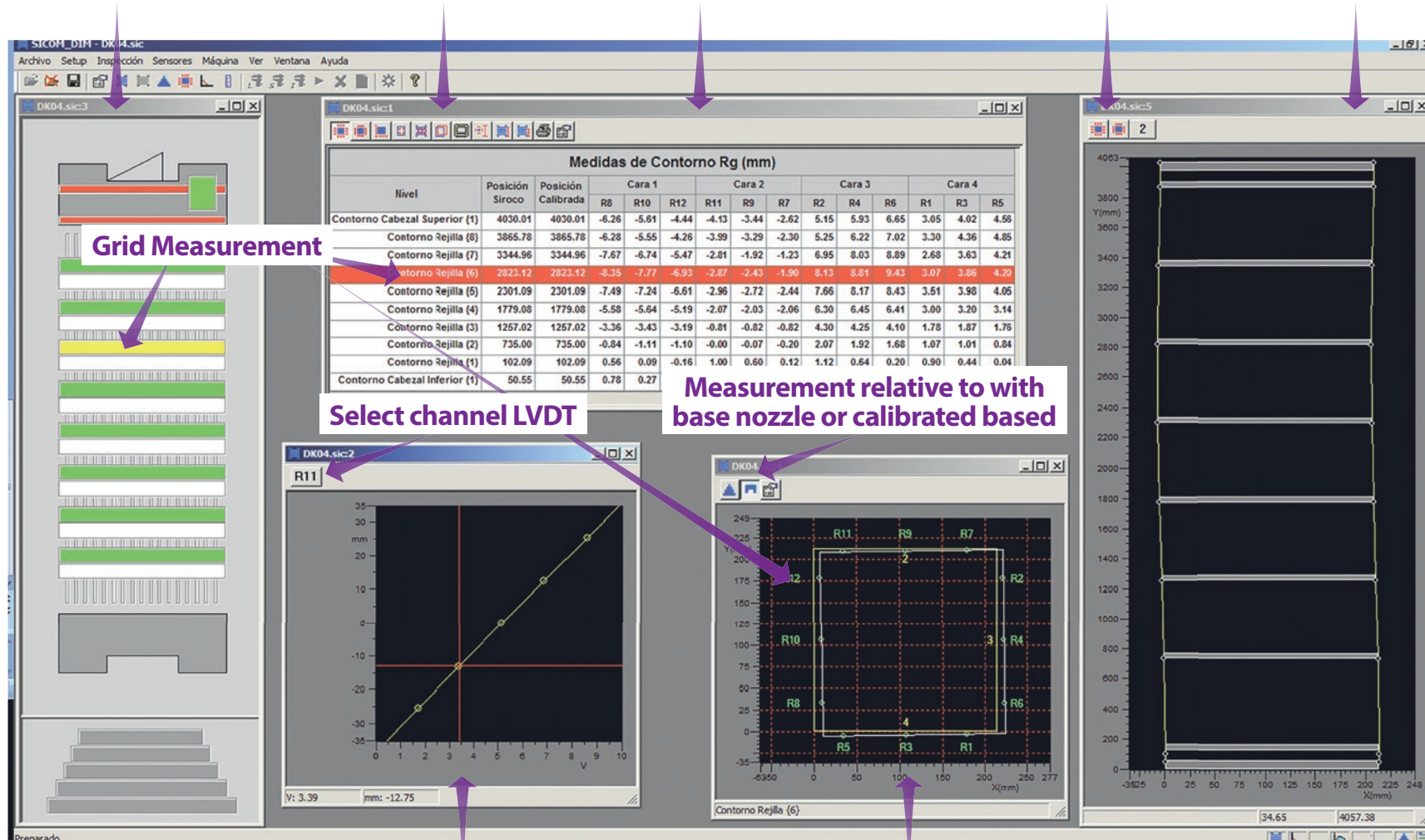
Program Inspection View

Measurement types

Data window

Select of measurement types

Profile windows



Grid Measurement

Select channel LVDT

Measurement relative to with base nozzle or calibrated based

Calibration view

Up/Bottom view



Tecnatom S.A.
Av. Montes de Oca, 1
28703, San Sebastián de los Reyes / Madrid- Spain

www.tecnatom-ndt.com

