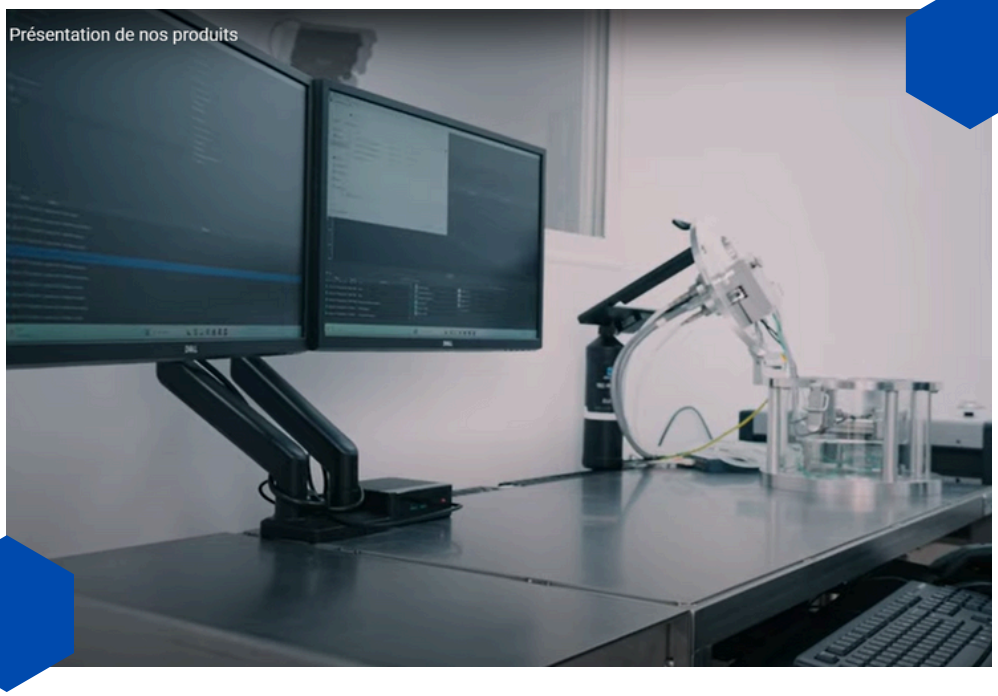
NewTec Scientific

ExoSEM

Ex-Situ Chamber

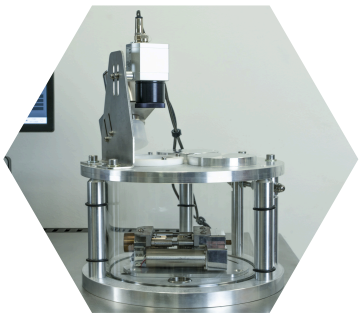


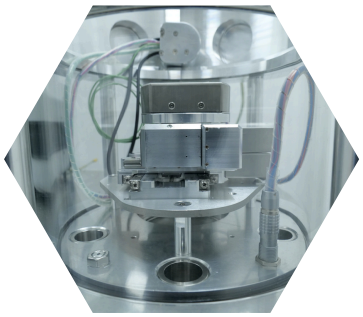
Target:

Preserve the integrity of the SEM chamber and its detectors to avoid any contamination during thermal or thermomechanical testing.

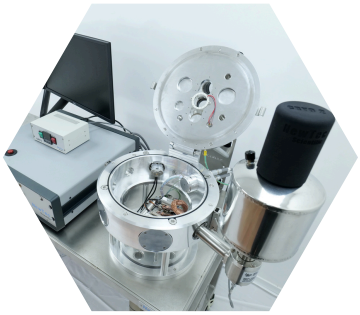
"Thermal tests under vacuum could generate sublimation of some alloys depending on the vacuum and temperature level."

"Gas injection following conditions could unleash chemical reactions risking contamination of the chamber and the SEM column, or damage the detectors."

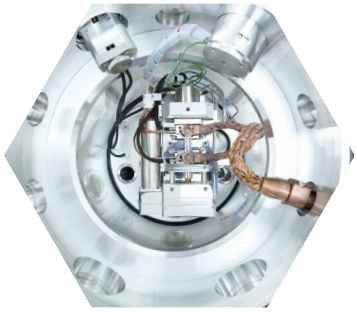




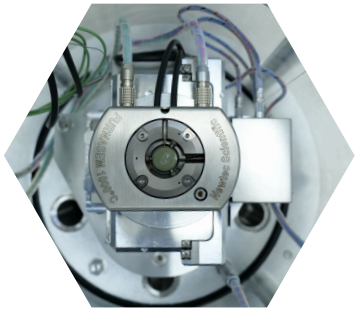
360° Visualization During Testing



Compatible with CRYO option,
Gas injection, and more...



Compatible with MT1000 tensile stage



Compatible with FurnaSEM

Controlled conditions: High vacuum, low vacuum, oxidized or reduced atmospheres

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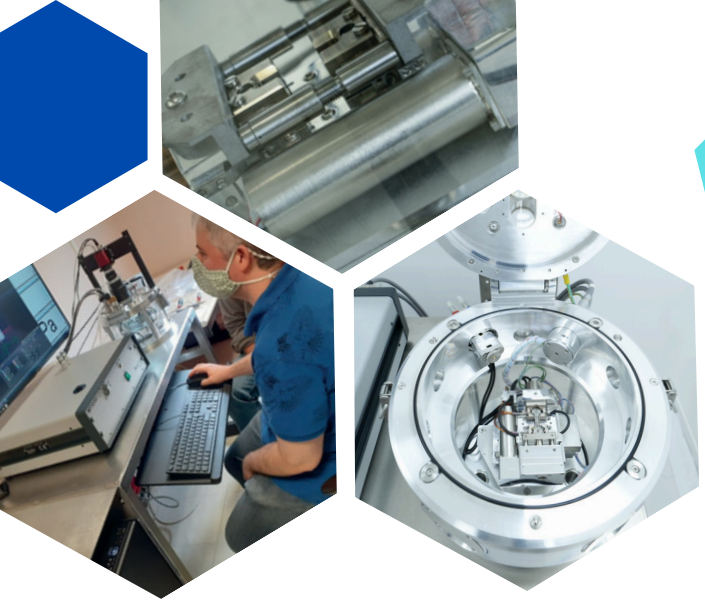


ExoSEM (Ex-Situ chamber)

Key Advantages:

1- Identical conditions than SEM chamber and friendly cleaning in case of contamination

2- Various optical observation

3- Thermal analysis (pyrometer,IR camera, etc.)

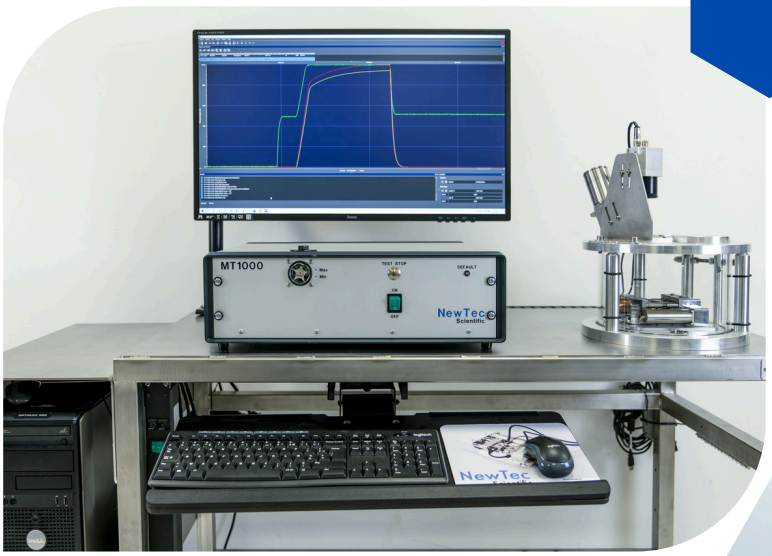
4- Customizable on demand

5- Mobile and easy to install (only one working station)

Specifications:

General Features:

- Internal dimensions: Ø 220 mm × 160 mm
- Transparent viewing
- Secondary vacuum up to 2 × 10^{-6} mbar (different vacuum levels available)
- Mobile stainless-steel workstation
- on wheels
- Lighting

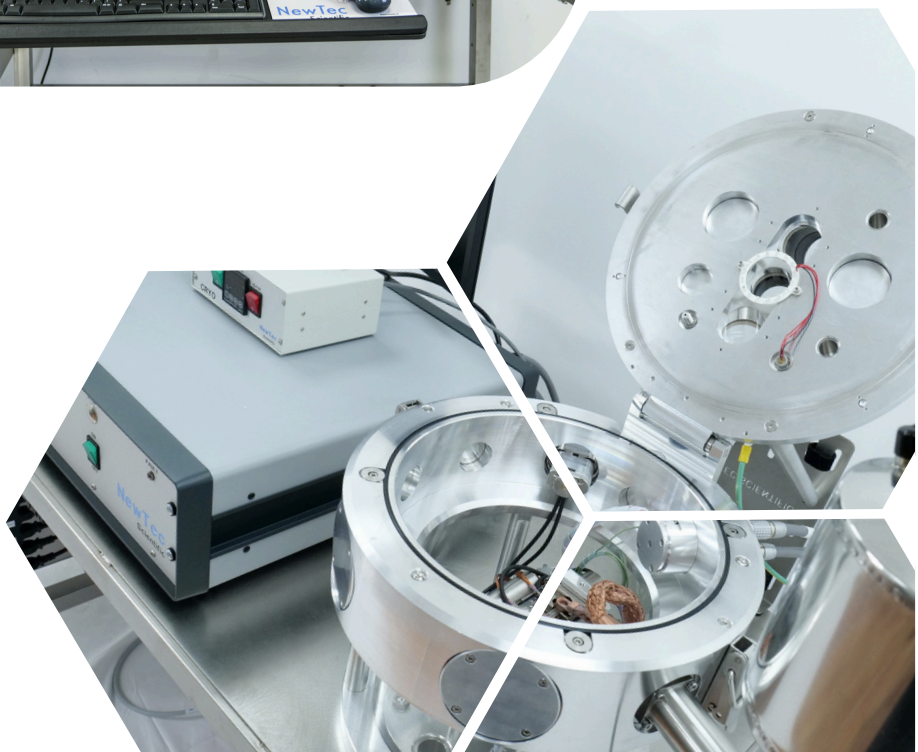


Options:

X-Y-Z stage
Additional lighting
Optical observation
Pyrometer
Cryo system
Gas injection system

Specific Features (on request):

- Manual or automated valves
- Additional viewports
- Integration of external equipments
- Sensor feedthroughs
- Flow measurement
- ...



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