

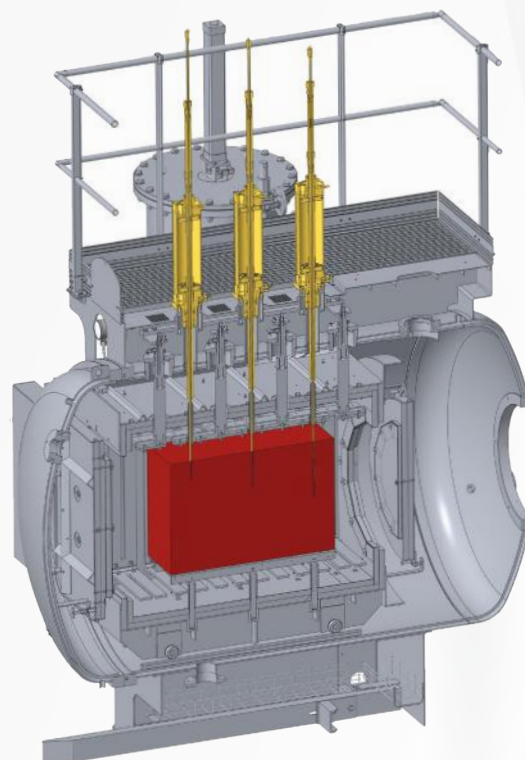
## Pyrometry

# Retractable load TC for vacuum furnaces

Some vacuum heat treatments do require excellent temperature homogeneity. They are subject to strict standards such as the AMS2750E.

For these applications, it is mandatory to insert thermocouples in the parts to be treated.

In order to guarantee performance and to offer a better user experience, BMI developed an automated system of retractable load TCs for its range of vacuum furnaces.



## PRINCIPLE

The TCs are programmed to insert themselves automatically in the useful zone of the furnace directly in the pre-set position. They are driven by pneumatic actuators. Depending on the type of load, a custom-made equipment can be made, allowing the correct insertion of thermocouples in a specific position.



## BENEFITS

- Automation and perfect repeatability of the position of part thermocouples
- Benefits of type B without having an operator handling the TC (automatic instrumentation of the «load TC»)
- Extended lifespan of components
- Perfectly suited for automated loading/unloading installations

## OPTIONS

- « PackAero », as an add-up on BMI's Graphtil supervision, is complementary to the use of retractable TCs. It includes thermocouples monitoring, offset management with correction factors and manufacturing order management, thus making it easier to comply with the AMS2750E standard.

