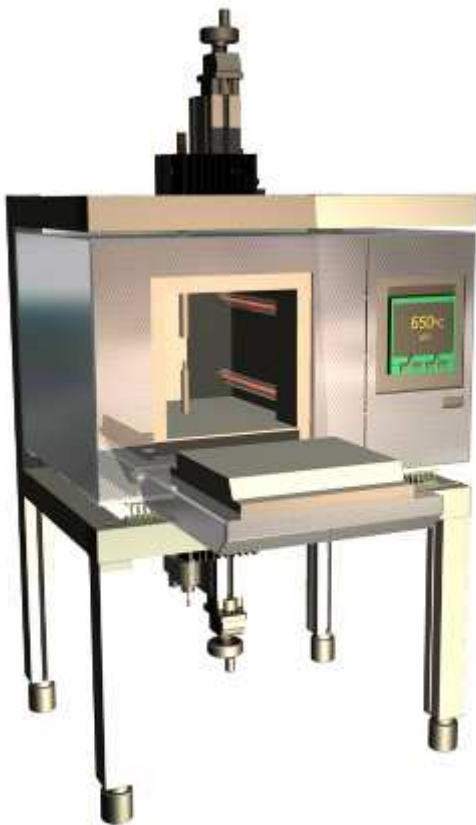




# RFDA MF HT650

The HT650 system measures the elastic properties and internal friction (=damping) of samples continuously at high temperatures up to 650 °C. Optionally the HT650 can be delivered with a manual gas supply system, which can be used to generate a continuous flow of an inert gas (eg. N<sub>2</sub>, Ar,..) in the furnace chamber. There is also the possibility to upgrade the maximum working temperature to 1050 °C.



More info: [www.imce.net/ht-650](http://www.imce.net/ht-650)

Measurement examples: [See annex](#)

Specifications	
Measures	Resonant frequency Internal friction (=damping) Young's modulus Shear modulus Poisson ratio
Internal dimensions of the furnace	Width: 170 mm Depth: 200 mm Height: 170 mm
Temperature profile	Room temperature to 650 °C (optional: to 1050 °C)
Atmosphere	Air (optional: with gas flow)
Number of samples	1
Heating/cooling speed	1 - 5 °C/min
Measurement interval	1 - ∞ sec
Isolation material	Multilayered fibre plates
Heating elements	Quartz glass tubes
Cooling medium	Air
Minimum sample size*	- Rectangular bar or cylindrical rod with a length of ±3 cm - Disc with a diameter of ±4 cm
Maximum sample size	- Rectangular bar or cylindrical rod with a length of ±15 cm - Disc with a diameter of ±15 cm

\*smaller is possible for very stiff materials