

High Temperatures CETR (CETR-HT)

Description

This machine has been specially developed for carrying out tests , in pin-on-disk / ball-on-disk configuration, at temperatures going from room temperature up to 1100°C .

This device is adapted for modelling , on a lab scale, metal deformation processes at high temperatures and tribology phenomena taking place in standard or complex environmental conditions as in aeronautics or the nuclear industry.

All types of metals and alloys can be tested: aluminium, copper, steel, titanium, inconel, maraging, etc.

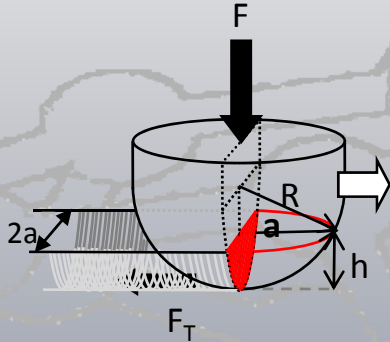
Conditions

- *Load: 5 - 1000 N ± 50 mN.*
- *Temperature: Room T - 1100°C ± 0.1 °C.*
- *Rotation speed: 0 -3000 rpm*
- *Environmentally regulated (N2) aiming the control of the oxidation speed of the samples.*

Results



Coated sample after tribological test at 950°C



Schematics of the disk deformation at high temperature in a friction test.

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