

SAMPLE HOLDERS (Electronic bombardment, conduction and multiple sample holder)

Objectives

The main objective is to introduce a sample inside a vacuum system. The multiple sample holder can introduce 20 samples fixed by carbon type. The one single sample holder heating the sample with different methods: electronic bombardment and conduction.

Environmental conditions

- Sample temperature range in conduction sample holder: from 300K to 1000K in sample holder computer controlled.
- Sample temperature range in bombardment sample holder: from 300K to 1300K in sample holder computer controlled.
- Minimal outgassing. Compatible with UHV at pressures below 10^{-10} mbar.

Technical parameters

- Type of samples compatible with STM. Type «Omicron». Surface of sample around 1cm^2 .
- Body and screws of stainless steel.
- Thermocouple type K
- Alumina ceramics
- Electronic bombardment sample holder: Tungsten filament 0.2mm diameter. Body voltage to ground or -100V. Voltage sample, up to +1500V.
- Conduction sample holder: Tungsten filament 0.2mm diameter. Thread spiral embedded in ceramic alumina cylinders.
- Easy transfer with a common transfer rod.

