

# Sintering Furnace

## MUT 1

### Principle

Furnace for heat treatment with the exclusion of oxygen

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| <b>Manufacturer</b>        | MUT Jena                                                                                                                                          |
| <b>Furnace Type</b>        | horizontal recipient, water cooled                                                                                                                |
| <b>Heating System</b>      | molybdenum heater, inside                                                                                                                         |
| <b>Useable Volume</b>      | base area approx. 250 x 300 mm<br>height about 270 mm                                                                                             |
| <b>Useable Atmospheres</b> | argon, hydrogen, high vacuum                                                                                                                      |
| <b>Useable Gas Flow</b>    | 0 - 10 l/min each gas                                                                                                                             |
| <b>Pump Kit</b>            | rotary vane pump, turbomolecular pump                                                                                                             |
| <b>Pressure Range</b>      | normal pressure with continuous gas flow, pre-vacuum, high vacuum, better $5 \times 10^{-5}$ mbar<br>partial pressure variable with regulated gas |
| <b>Temperature Range</b>   | maximum temperature: 1500 ° C<br>continuous operating temperature: 1350 ° C                                                                       |
| <b>Optional Equipment</b>  | moisture measurement in the supply and exhaust gas pre-equipped                                                                                   |