

# High-Vacuum Heat Treatment Furnace



Since 2002 the company FMB GmbH has been working with its own High-Vacuum Heat Treatment Furnace.

On the basis of this new furnace we are able to offer the following technologies and services :

- UHV-proof brazing on components made of copper, Glidcop, stainless steels, molybdenum, tungsten, mu-metal, ceramics
- Brazing under partial pressure (Ar and N<sub>2</sub>)
- Stress relief annealing
- Annealing for reduction of residual permeability.

We shall be pleased to answer your inquiries.

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## Technical Data.

### Interior dimensions (wxhxd)

- Brazing area dimensions : 500 x 500 x 800 mm<sup>3</sup>
- Dimensions of parts (max) : 600 x 600 x 1000 mm<sup>3</sup>

**Temperature (max.) :** 1200 °C

**Final vacuum (cold, baked furnace) :** <10<sup>-6</sup> mbar

**Temperature measurement on components :** at 9 positions

**Uniformity of temperature in the brazing area :** <+/- 5 K

**Heating :** Mo band heaters

**Radiation isolation :** Mo and stainless steel

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