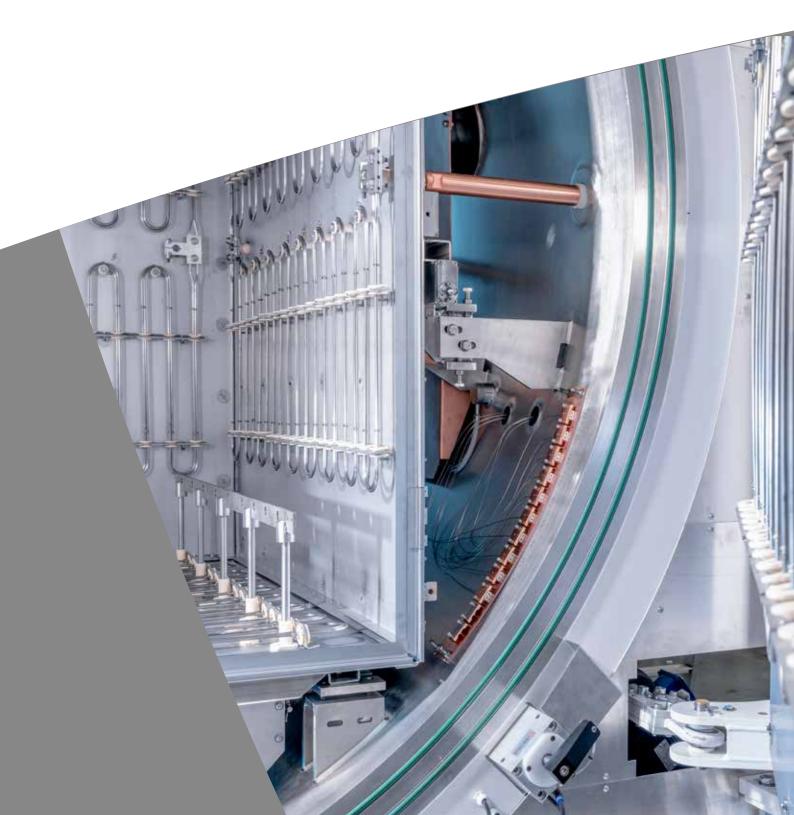


Heat Treatment in Carbon-Free Atmosphere

Refinement of Materials and Sintering of Components



Heat Treatment in Carbon-Free Atmosphere

Refinement of Materials and Sintering of Components

MOV furnaces are metal-heated systems, designed for heat treatment in vacuum. They cover a wide range of industrial applications that require high vacuum, temperature and a particularly clean, carbon-free atmosphere.



Advantages:

- Operating temperature up to 2400°C
- Ultimate vacuum up to 1 x 10⁻⁶ mbar
- Fast cooling for short cycle time
- Excellent temperature homogeneity
- Well elaborated safety concept
- Environment friendly technology



Heater material:

- Niobium
- Molybdenum
- Tantalum
- Tungsten



The systems are flexibly configurable :

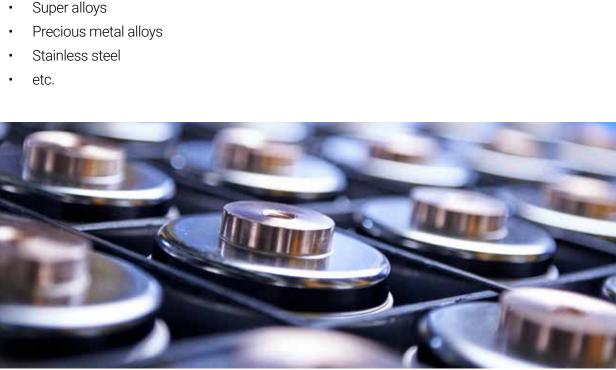
- Design and usable dimensions •
- Process temperature and heater material •
- Vacuum level and pumping type •
- Loading: Horizontal, Top- or Bottom •
- Middle heater •
- Internal/external fast cooling

Applications...

- Bright- and stress-free annealing •
- Degassing and cleaning
- Sintering and infiltration
- Annealing

...for

- **Refractory metals**
- Super alloys







PVA Industrial Vacuum Systems GmbH is a subsidiary of PVA TePla AG. The Wettenbergbased company is a leading manufacturer of highly innovative vacuum systems. With more than 1,000 plants on the market and 50 years of experience in the high-temperature field, PVA Industrial Vacuum Systems GmbH builds and markets thermal process plants and systems for the development, manufacture and treatment of high-quality materials at high temperatures. In conjunction with its own Application & Innovation Lab, PVA Industrial Vacuum Systems GmbH also supports its customers with individual system and application developments right up to series production.



PVA Industrial Vacuum Systems GmbH is an internationally established supplier of systems and facilities for developing, producing, treating and refining sophisticated industrial materials using:

Vacuum	High temperature	Plasma	