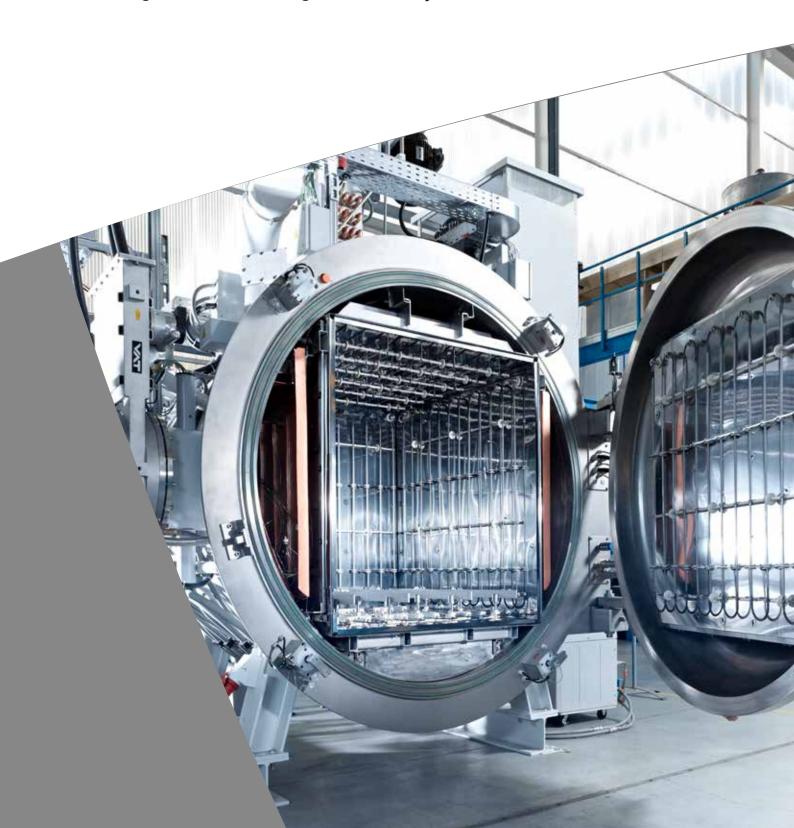


High Vacuum Brazing

Joining Process of Highest Quality



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Our vacuum furnaces are specially designed for high vacuum brazing applications in a wide variety of industries such as aerospace, energy technology, electromobility, etc..

Nowadays the modern technologies require high vacuum level as well as high-purity process atmospheres. The systems are made for robust high volume brazing applications, but also for extremely reaction-sensitive materials.

Advantages for the customer:

- Fully automatic furnace operation
- Short cycles due to fast cooling
- Long lifetime
- Large-area brazed joints
- · Complicated geometries can be joined
- Graphite or metal heater

Process:

- Max. temperature: 1700°C
- Temperature homogineity up to ≤ ± 5 K
- High vacuum level up to: 1x 10⁻⁷ mbar
- No oxidation due to vacuum atmosphere





Metal heated system type MOV





Graphite heated system type COV



Multi chamber brazing system

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

Wide range of applications, for example:

- High volume brazing applications
- Brazing of highly reactive metals
- Vacuum interruptors
- Plate heat exchangers, e.g. PCHE
- Heat exchangers for heat pumps
- etc.







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 |
|--------|------------------|--------|
|--------|------------------|--------|