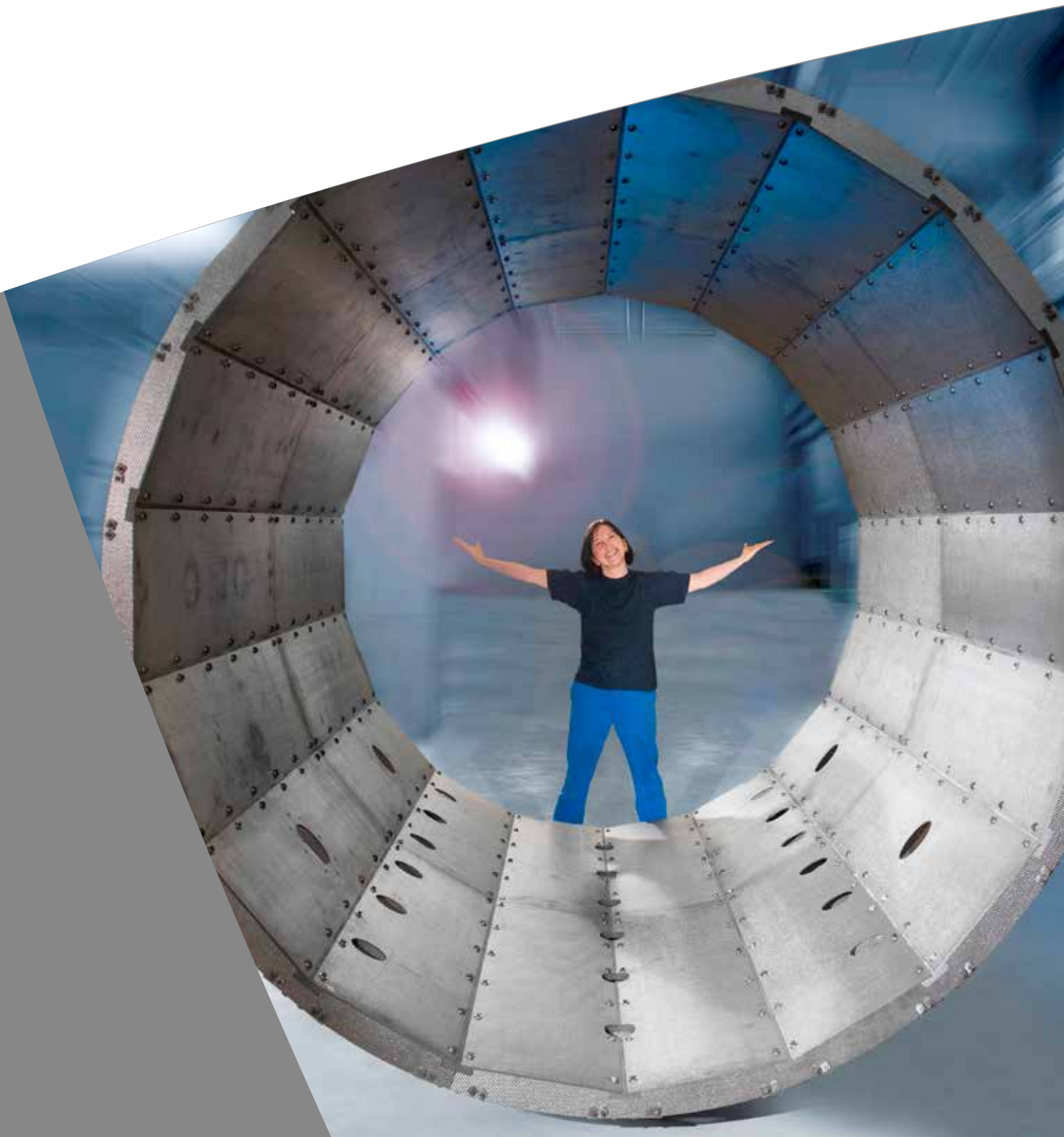


# Heat Treatment

Refinement of Materials and Sintering of Components



# Heat Treatment

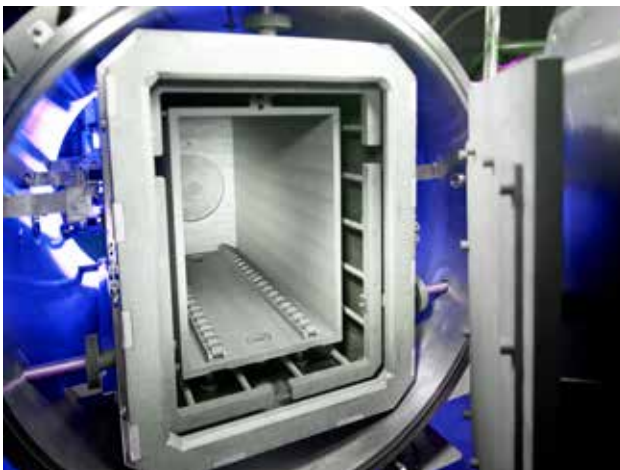
## Refinement of Materials and Sintering of Components

COV furnaces are graphite-heated systems, designed for heat treatment in vacuum. The variety with respect to design, usable space, vacuum level and working temperature is extremely wide. As a consequence, COV furnaces can be used for numerous applications.



### Typical applications:

- Sintering of hard metal and ceramics
- Debinding
- Annealing
- Degasing
- Pyrolysis
- Infiltration
- CVD-coating
- etc.



**The systems are flexibly configurable :**

- Operating temperature up to 2.400°C
- Temperature homogeneity down to  $\pm 3$  K
- Usable space up to 13 m<sup>3</sup> or larger
- Vacuum range down to  $1 \cdot 10^{-5}$  mbar
- Loading: Horizontal, Top- or Bottom
- Middle heater



**Advantages for the customer :**

- Energy saving concepts
- Environment friendly technology
- Highest product quality
- Excellent temperature homogeneity
- Well elaborated safety philosophy
- Fast cooling for short cycle time



PVA Industrial Vacuum Systems GmbH is a subsidiary of PVA TePla AG. The Wetzlar-based 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:

<b>Vacuum</b>	<b>High temperature</b>	<b>Plasma</b>
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