RHP TECHNOLOGY

Thin Film Materials
Rapid Hot Pressing Services
R&D Solutions

SOLUTION PROVIDER IN POWDER TECHNOLOGY AND HOT PRESSING

RHP TECHNOLOGY

www.rhp-technology.com

RHP-Technology GmbH & Co. KG

solution provider in powder technology and hot pressing

Thin Film Materials

Sputtering Targets & Targets on demand

We offer customized target materials tailored to your specific needs. our production facilities allow short lead times for small and medium series, individual material compositions and special geometries.

R&D Solutions

New Materials & Technology development

Our team has 15 years of R&D experience in powder technology and hot pressing. Using this knowledge we offer support and fast solutions for your specific problem. We are ready to challenge the toughest nuts.

RHP Services

Rapid Hot Pressing & Material Analysis

The RHP technology-center is well equipped with various hot pressing technologies, sintering and sinter HIP furnaces as well as for material characterization, powder treatment, machining, EDM cutting and thermal annealing.

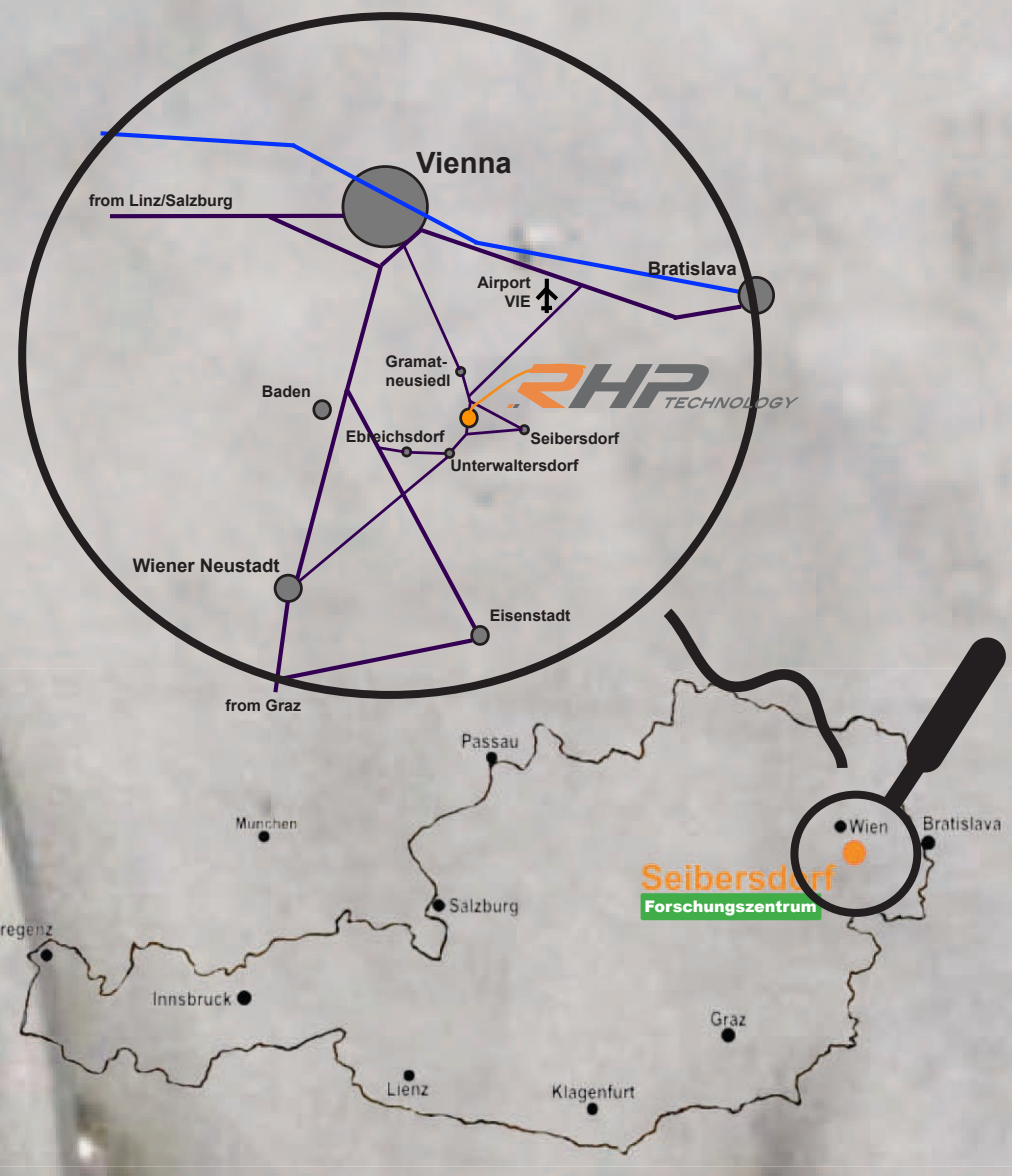
15 years of experience in powder technology

In 1996 the first conventional hot press and sintering furnaces were installed at the Austrian Research Centers in Seibersdorf. Since then our team focuses on the development of new materials and has collected extensive experience in the hot pressing technology. Tree years ago our processing capacities were extended by a rapid hot pressing machine which allows very high heating rates of typically 100-300 K/min and maximum temperatures of 2400°C.

In October 2010 our team formed a new company as a spin-off from the AIT Austrian Institute of Technology (former Austrian Research Center - ARC Seibersdorf)

RHP-Technology offers its know-how and manufacturing capacities to companies and partners. This includes production of innovative materials as well as technology development and transfer.

As an international demonstration centre for hot pressing technologies RHP-Technology is currently exploiting rapid single sinter pressing as an innovative future technology, also for manufacturing temperatures above 1000°C.



Our products include

Sputtering Targets & Targets On Demand

We offer in-house produced targets with your specific composition and geometries. The variety covers pure metals to ceramics including precious metals, oxides, nitrides, carbides, borides, sulfides, ...

DiaCOOL Diamond Composites

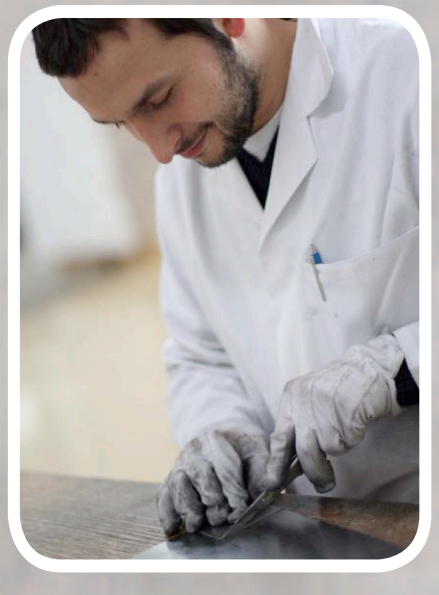
High performance cooling material (heatsink, heatspreader) with 6-8 ppm/K thermal expansion (CTE matched) and high thermal conductivity of 350-500 W/mK. Main applications are power electronics, opto electronics and laser systems.

New Materials & Advanced Ceramics

RHP-Technology develops and produces ceramic materials for special applications. This includes ceramics like B_4C, also using special isotope powders (e.g. B^{10} and B^{11} enriched), alternative cutting materials, self lubricating composites and many others.

R&D Services and Technology Transfer

Development of new materials
Rapid Hot Pressing Services
Process development and transfer
Industrial research and feasibility studies



Processing technologies

Rapid Hot Pressing

direct heated: up to 400K/min and 2400°C
conventional heated: up to 20K/min and 2200°C
inductive heated (lab scale): up to 300K/min and 1800°C

Sintering

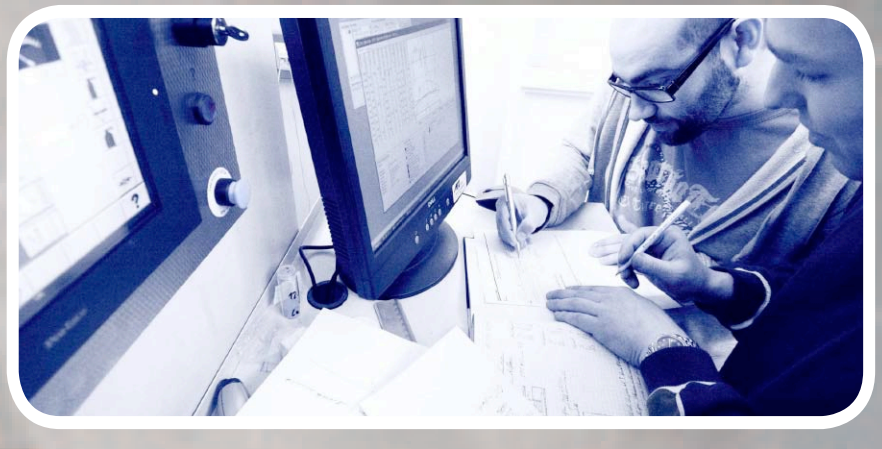
Debinding & Sintering under H_2, N_2, Ar, high vacuum
Sinter HIP up to 100 bar, 2200°C

Powder treatment

Milling and Mixing devices
Glovebox under inert atmosphere

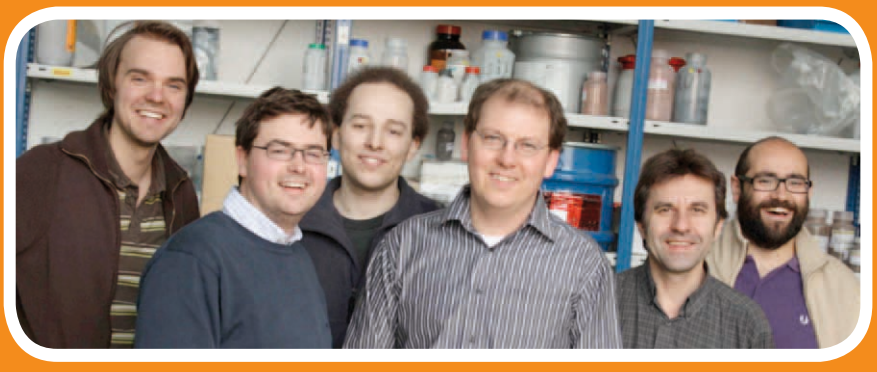
Finishing and Analysis

Furnaces for thermal treatments
Sample preparation, Metallography
Microscopy and element analysis
Physical property analysis
EDM machining, flat and circular grinding



dia cool **targets on demand**

products by RHP TECHNOLOGY



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