

Sintermetal- & METAPOR[®] chucks

Modular chucks
Custom built chucks



These chucks have a porous surface area made out of sinterbronze, ceramic or porous aluminium depending on the application and workpiece. METAPOR[®] opens a whole new perspective for different clamping solutions

Application

Preferred workpieces:

- Thin walled (i.e. paper, foils, plate bars, metal strips)
- Fine (i.e. optical)
- Soft materials (i.e. rubbers)

for work such as:

- High precision measuring
- Precision milling
- Silicon wafer production

Advantages

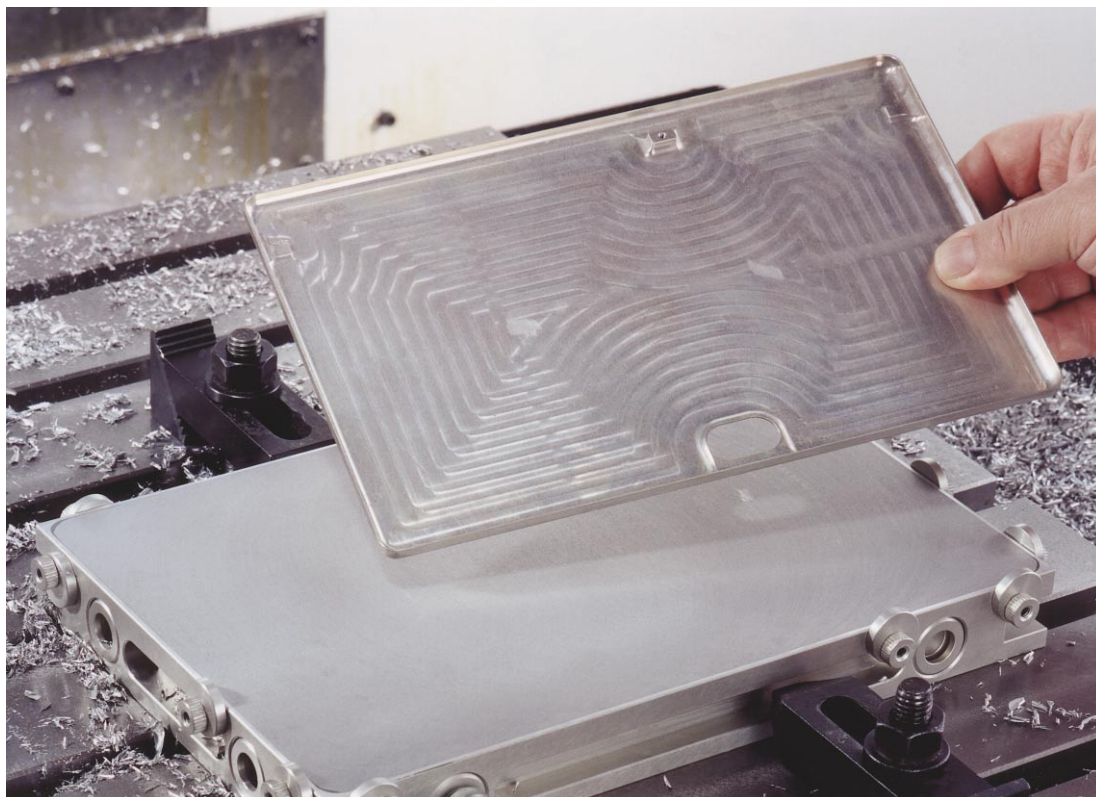
- Due to the absence of grooves and holes workpieces are not deformed for instance on inserts in the clamping area
- Milling through the workpiece is possible with the use of our Friction booster
- METAPOR[®] has different quality grades and can also qualify for Clean room surroundings (Kl. 10)

Handling

- Modular chucks can be interconnected to enlarge the surface area.

Sintermetal & METAPOR®-Vacuum chucks

Modular chucks can be interconnected to enlarge the surface area. The inserts can be out of Sintermetal or METAPOR®



Witte modular grid chucks are manufactured in high-tensile aluminium. Steel versions are available on request.

Supply includes:

- 1 x tail end
- 7 x blind plug
- 10 x O-ring
- 1 x plug, inside dia 12
- 2 Step heel clamps no.30617, alu
- 1m vacuum suction hose with wire spiral 18/12
- height adjustable excentric end stops



Witte METAPOR® chucks are also available in a modular version if required

Sintermetal & METAPOR®-Vacuum chucks

Modular chucks can be interconnected to enlarge the surface area. The inserts can be out of Sintermetal or METAPOR®

Sintermetal Vacuum chucks

No.	lxwxh	kg
84686	300x200x38	7,1
84687	300x400x38	14,2
84688	600x400x38	28,4

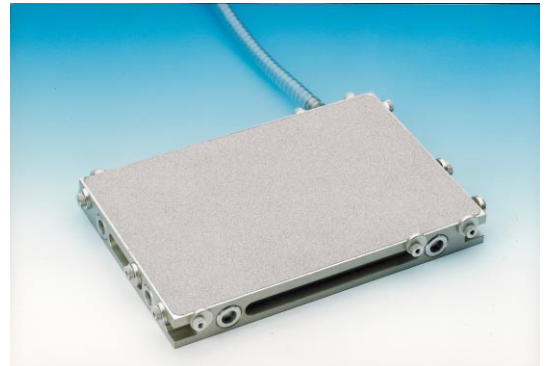
Inlay out of well tested Sinterbronze



METAPOR® Vacuum chucks with BF100 AL:

No.	lxwxh	kg
83401	300x200x38	6,1
84380	300x400x38	12,2
84381	600x400x38	24,4

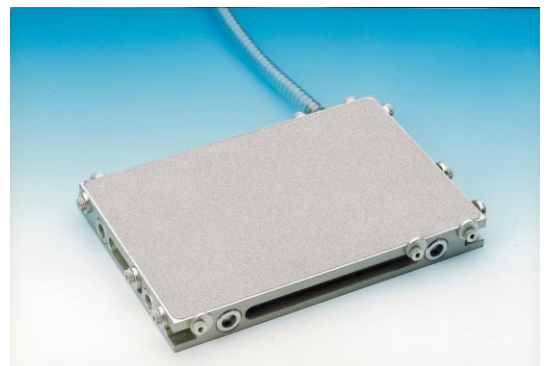
Inlay out of an air permeable material called METAPOR® BF 100 AL, a description can be found on page 110



METAPOR® Vacuum chucks with MC 100 AL:

No.	lxwxh	kg
91021	300x200x38	6,1
92290	300x400x38	12,2
92291	600x400x38	24,4

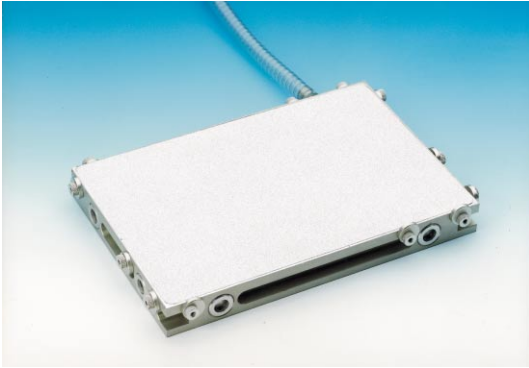
Inlay out of an air permeable material called METAPOR® MC 100 AL, with a higher degree of porosity compared to BF 100 AL



Special dimensions available on request !

Sintermetal & METAPOR®-Vacuum chucks

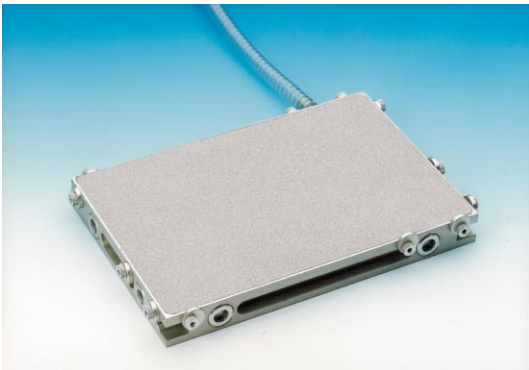
Modular chucks can be interconnected to enlarge the surface area. The inserts can be out of Sintermetal or METAPOR®



METAPOR® Vacuum chucks with CE 100:

No.	lxwxh	kg
91488	300x200x38	6,1
92294	300x400x38	12,2
92296	600x400x38	24,4

Inlay out of METAPOR® CE100 WHITE, is a fine porous material with a medium pore diameter which is lower than that of BF100 or MC100. This Material has a very homogenous total porosity. Especially interesting for the silicon wafer production



METAPOR® Vacuum chucks with HD 210:

No.	lxwxh	kg
94315	300x200x38	6,1
94316	300x400x38	12,2
94317	600x400x38	24,4

Inlay out of an air permeable material called METAPOR® HD 210, this material can be used up to 210°C

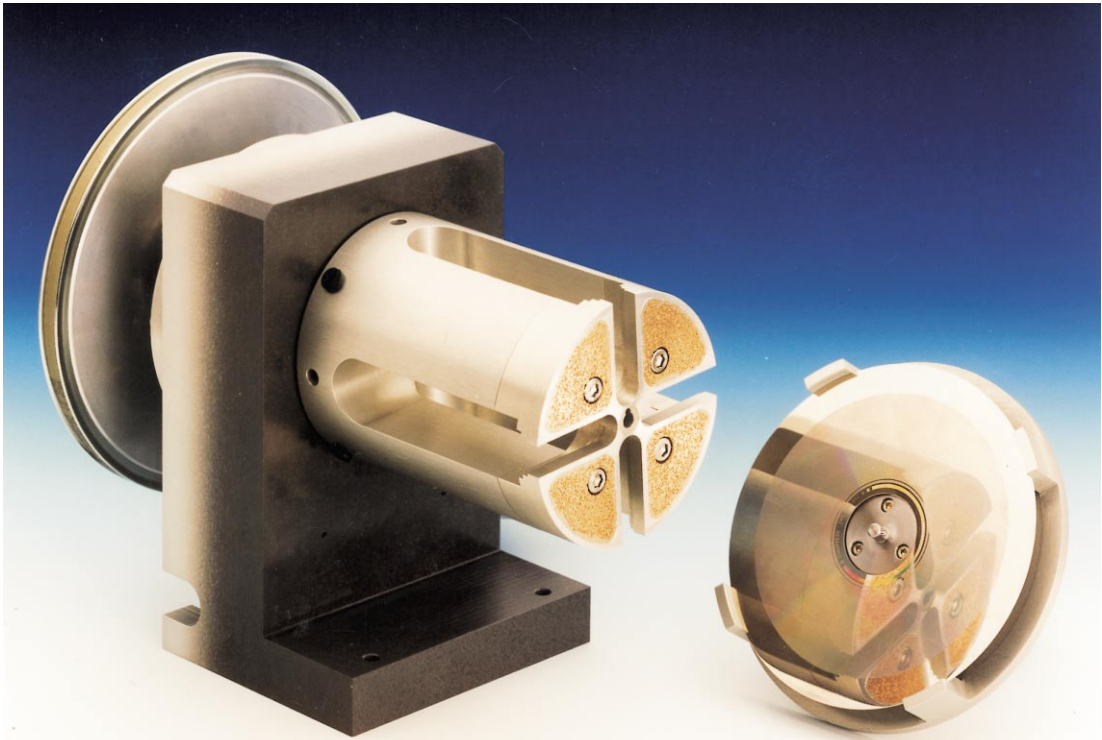
Special dimensions available on request !



Custom built vacuum chuck with Metapor insert

Sintermetal & METAPOR[®] vacuum plates

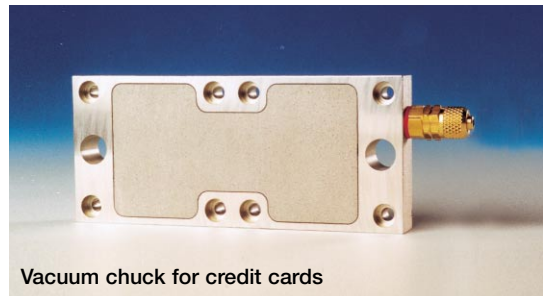
Examples of custom made chucks



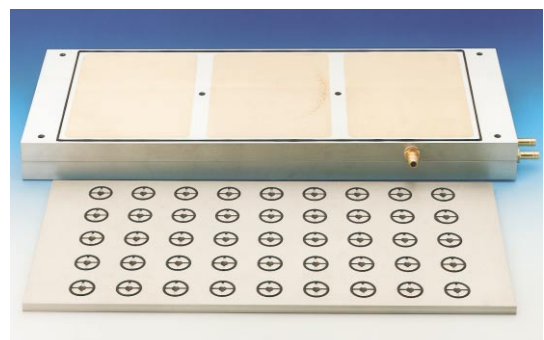
Picture shows a special sinter metal vacuum fixture used in quality control department of CD manufacturer



3D Vacuum chuck



Vacuum chuck for credit cards



Right

Sinter metal vacuum chuck with special adapter plate for clamping hard metal blanks during high precision laser machining. It has an integrated cooling labyrinth which prevents inaccuracies, due to development of warmth which occurs during the laser machining process