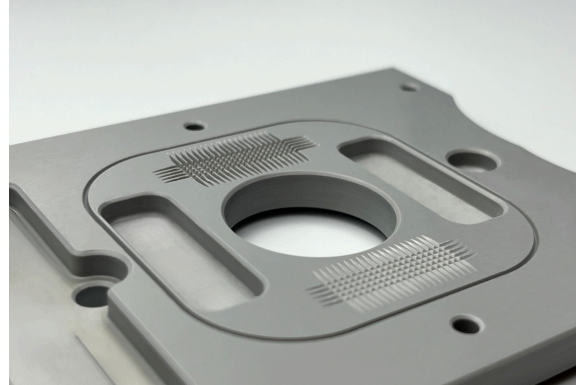




TECHNICAL CERAMICS

Technical ceramics and glasses are materials characterized by extreme hardness and brittleness. These materials are very difficult to machine using conventional manufacturing methods. Therefore, since 2005, Fuchshofer Präzisionstechnik GmbH has been offering the machining of 'Advanced Materials' on state-of-the-art machining centers, with and without ultrasonic technology.



PROCESSING VARIABLES:

(Travel paths X/Y/Z)

- 450 x 650 x 460 mm
- 510 x 400 x 350 mm
- 650 x 520 x 475 mm
- 980 x 630 x 630 mm

AREAS OF APPLICATION:

- Semiconductor industry/
chip industry
- Chemical industry
- Medical technology
- Metrology
- aerospace industry
- General mechanical engineering

MATERIALS TO BE PROCESSED:

Ceramic materials:

- Oxide ceramics
 - Aluminum oxide (Al₂O₃)
 - Zirconium oxide (ZrO₂)
 - Mixed oxides (ZrO₂/AlO₃)
- Non-oxide ceramics
 - Silicon carbide (SiC)
 - Silicon nitride (Si₃N₄)
 - Aluminum nitride (AlN)
- Silicate ceramics
 - cordierite
 - steatite
 - mullite

Technical glass:

- Quartz glass (SiO₂)
- borofloat

Glass ceramics:

- Zerodur®
- Macor

Tungsten carbide:

- Tungsten carbide-cobalt carbides (WC-Co)
- Carbide grades for steel machining (WC-(Ti, Ta, Nb)C-Co)
- Cermets

