



YOUR-TOOL GmbH

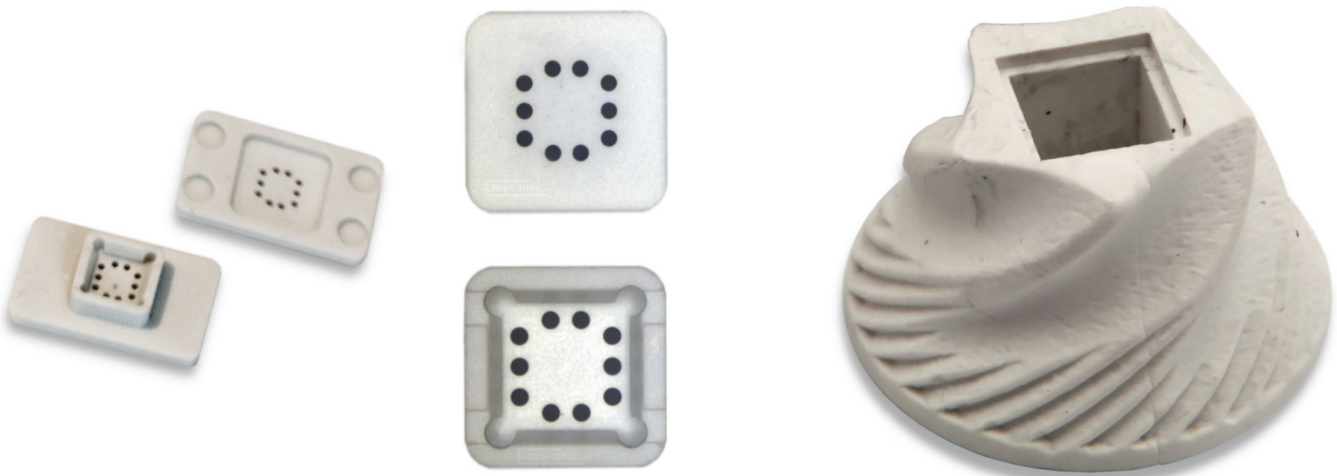
CERAMIC-CARBIDE MILLING
Production in highest precision

CERAMIC-CARBIDE

With our high-precision milling centres we produce complex 3D contours for tool and mould construction, made of hard metals or ceramics between 900 and 2200 HV.

Our goal is to continuously improve the economical production of components made of ceramic and carbide, such as stamping or forming tools. We are able to achieve homogeneous surfaces and high removal rates without time-consuming post-treatment. Almost every imaginable 3D geometry, even highly complex contours, such as threads, which until now could only be realized with the aid of eroding or grinding, are milled by us from carbide or ceramics. In order to meet the high demands on surface quality, contour accuracy or cost effectiveness of these components, we use machines with extremely high repeatability, positioning accuracy and specialized milling tools.

We achieve average roughness values of $Ra < 0,05 \mu m$, minimum tolerances of up to $\pm 2,0 \mu m$.



Technical Specifications

- Carbides and ceramics between 900 and 2200 HV can be machined
- Homogeneous surfaces with average roughness values of $Ra < 0,05 \mu m$
- Smallest tolerances of up to $\pm 2,0 \mu m$
- Repeatability of $< 1 \mu m$
- Positioning accuracy of $< 1 \mu m$
- Concentricity $< 1 \mu m$

We also mill threads in carbide or ceramic

Thread	M2	M2.5	M3	M4	M5	M6	M8
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