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Press Release

Ihre Zeichen
Ihre Nachricht vom
Unsere Zeichen M. Claudio Cappellano – Area Sales Manager Switzerland
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Die shoes and die sets* made of carbon fiber (*patent pending)

Image:



“Die set made of carbon fiber”

As product innovation continues the company AGATHON AG now offers die shoes and die sets* made of carbon fiber (*patent pending). The ultra-lightweight die sets are suitable for highly precise stamping applications for parts made of materials such as aluminum, copper, plastic, steel, ceramic films with a material thickness of up to about 0.8mm (depending on the strength of the material to be processed). Carbon fibers effectively absorb vibrations at high stroke frequencies. As an example; at 20 Hz a carbon fiber die set only reaches 1/20 of the vibration level of a steel die set.

This innovative approach allows maximum precision in the injection molds and machine construction. The carbon fiber material, with 1.65kg/dm^3 , has a very low density and a higher temperature resistance than aluminium and steel (depending on execution up to 150°C resp. 400°C for continuous load). For example, at a temperature of 300°C and a length of 500mm the expansion of carbon fiber is approximately 0.003mm or close to zero.

The die shoes can be supplied according to standardized thickness of 32, 40, 46, 52, 60, 80 mm. Special thicknesses are available upon request.

The thickness can be ground or pressed to size while the outer shape can be milled or cut accordingly. The maximum dimensions are 2500x1500x500mm. The die shoes are completely finished according to customer specifications/drawings and can be provided as complete die sets including guide elements.

Direktwahl

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