



SCHOTT

Diamantwerkzeuge GmbH

A new generation of diamond tools



HM-GVD

- Electroplated Diamond
tools with carbide
shafts



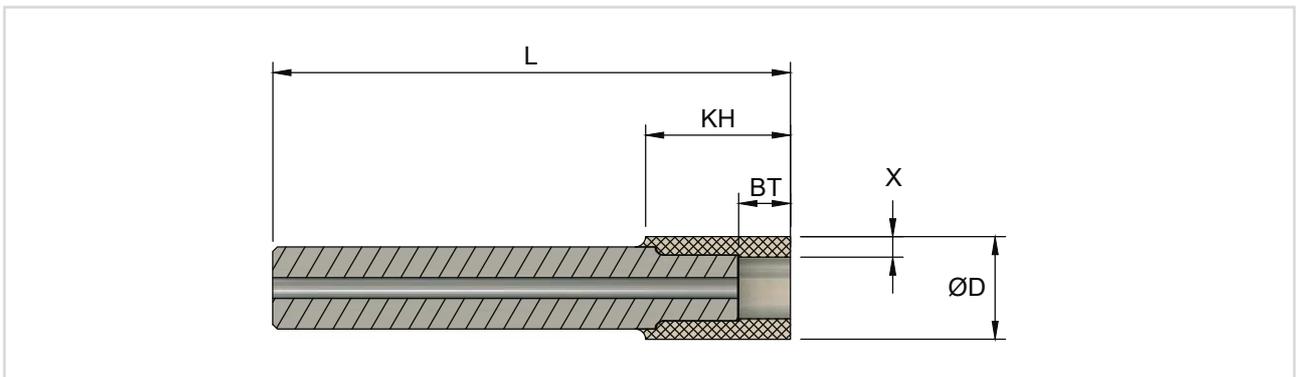
HM-GVD - Tools

HM-GVD

A new generation of diamond tools

The advantages of the new tool generation:

- Direct connection of the fully coated diamond crown on the carbide shaft
- h5 – diameter tolerances of the shafts
- No soldered connection required
- No thermal strain during the production process
- Excellent circular runout tolerances
- Greatest possible stiffness, even with long shafts
- Best possible grinding results even on difficult to process ceramics
- More abrasion because of higher feed rate and optimized infeed
- Optimal coolant flow also during deep processing
- Applicable in all common tool holders
- Applicable for conventional processes and also ultrasonic applications
- Patented manufacturing processes



HM-GVD - tools:

Possible manufacturing dimensions for nickel-bonded diamond tools

carbide shaft (tolerance h5 according to DIN ISO 268-2):	Maximum length carbide shaft:	Maximum crown depth:	Possible submergence:
3.00 - 24.00	max. 100 mm - max. 240 mm	8.00 mm - 20.00 mm	5.00 mm - 15.00 mm

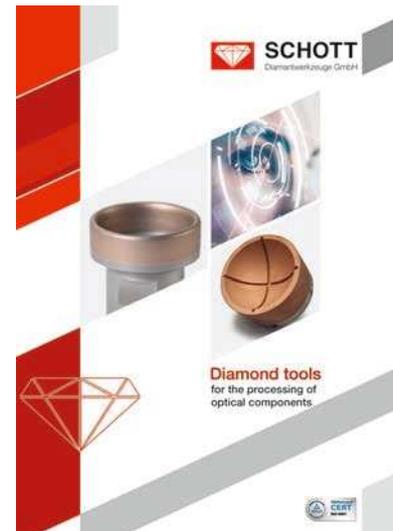
Further dimensions on demand

We make good products even better!

Tool examples and possible applications



- Machining of components for semiconductor production
- Grinding hard-to-work ceramics such as: SiSiC, aluminum- and zirconium oxide as well as SiN and similar
- Grinding even in deep components
- Replacement for conventional, galvanic tools for complex components
- Machining of complex components for the aerospace industry



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