

# CCDia®CarbideSpeed®



**GEMCON**  
The Tool Coating

# Machining Sintered Cemented Carbide Economically – Milling instead of Eroding with CCDia®CarbideSpeed®

Milling hard metals instead of eroding or grinding them brings about clear benefits: shorter cycle times, better surface finishes, more environmentally friendly machining, no corrosion and the possibility to produce more complex contours. With CCDia®CarbideSpeed®, CemeCon now provides tool manufacturers with a diamond coating material tailored to this task, which offers ideal conditions even under the toughest operating conditions – and thus makes the economical machining of carbide possible.

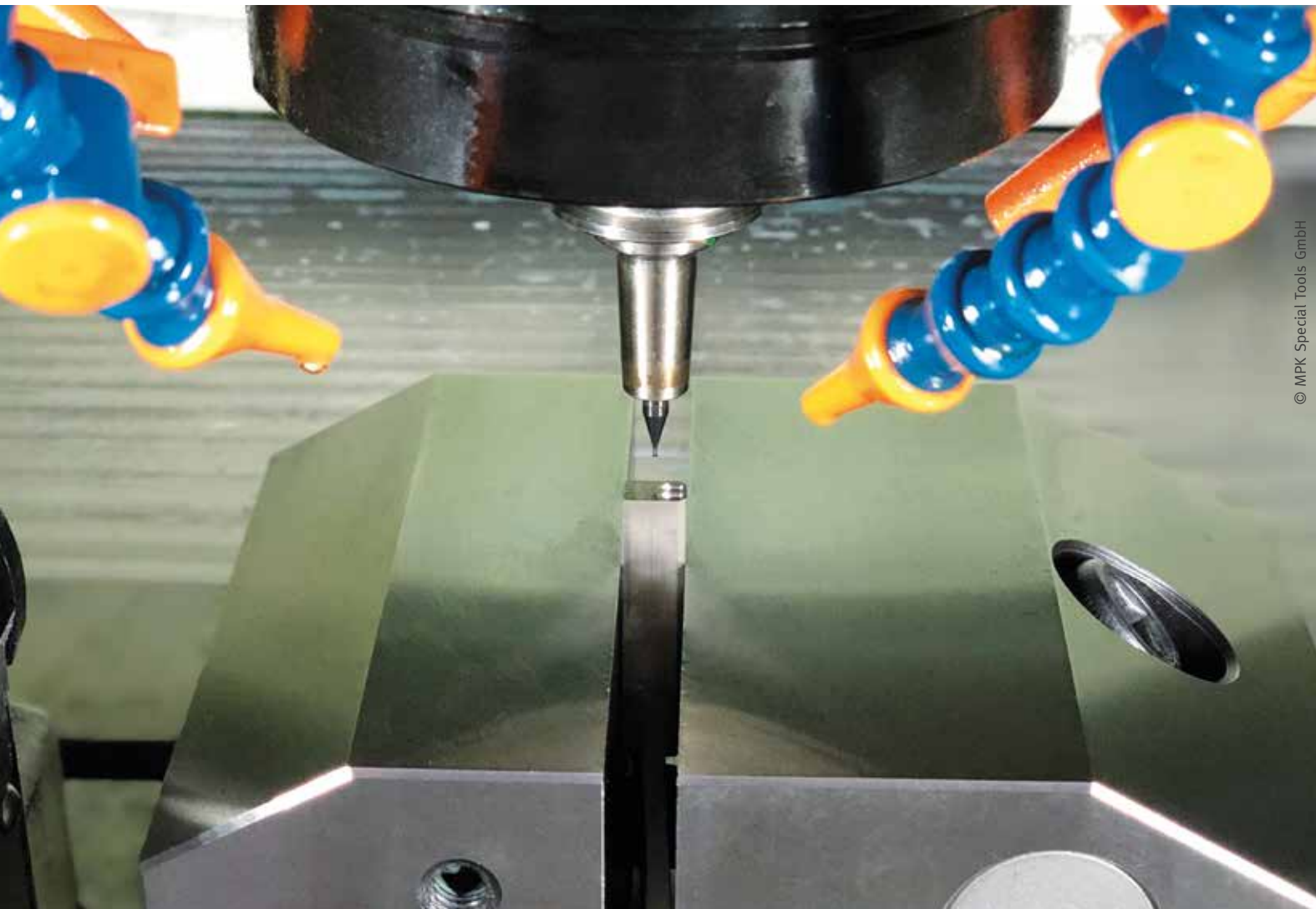
Eroding is currently the process of choice for the production of punches and dies made of carbide. The alternative: machining! This process technology eliminates the need for costly electrode production. The production time for a punch, for example, thus becomes significantly shorter. During EDM, a white edge zone with minor damage due to the heat input is formed, which must be removed again by time-consuming polishing. With machining, any “damage” to this edge zone is avoided,

enabling particularly high contour accuracy with better surface qualities. The possibility to produce complex 3D contours increases.

Sintered carbides are particularly difficult to machine, though. Hardness levels between 900 and 2,200 HV, high wear resistance and thermal hardness require extremely powerful and stable precision tools.

## CCDia®CarbideSpeed® – the Solution from the Market Leader

CCDia®CarbideSpeed® is a coordinated solution for machining carbide. The diamond coating material combines maximum adhesion with a microhardness of 10,000 HV<sub>0.05</sub> for maximum wear resistance. This makes machining economically feasible for the first time.



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# Talk to an expert!

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