

CCDia®FiberSpeed® und CCDia®MultiSpeed

for CFRP/GFRP/Ceramics

Layer thicknesses of 3 to 17 µm make CCDia®FiberSpeed® and CCDia®MultiSpeed universal and economical solutions for drilling and milling of fiber composites and ceramics. The very good adhesion gives highly reliable processes and different coating thicknesses give sharp cutting edges or maximum wear volume.

Application example

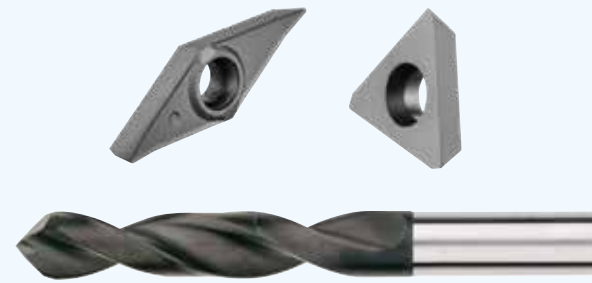
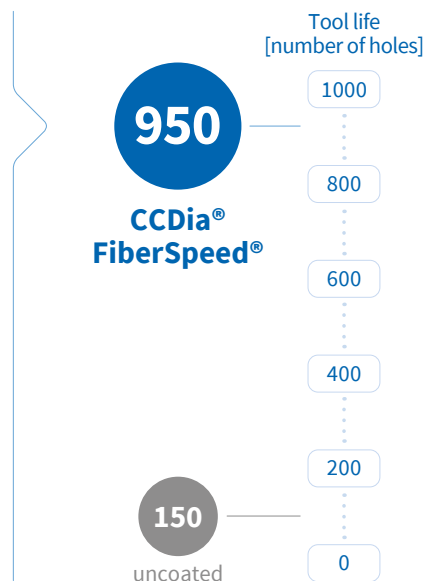
High wear volume for maximum performance

Material: **CFK, M21E**

Tool: **solid carbide drill,**
Ø 5.6 mm

$f_z = 0.06 \text{ mm/tooth}$

$n = 6500 \text{ min}^{-1}$



Technical data

Coating technology:

Diamond

Microhardness:

10,000 HV_{0.05}

Composition of the coating material:

Multilayer, sp³

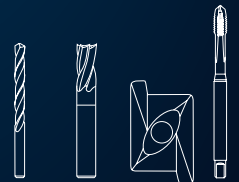
Color:

Grey

Max. operating temperature:

650°C

Available coating thicknesses



≈ 3 µm** (Thin)	✓	✓	—	—
≈ 9 µm*	✓	✓	✓	✓
≈ 14 µm**	✓	✓	✓	—
≈ 17 µm** (Plus)	✓	✓	—	—

*CCDia®FiberSpeed®, **CCDia®MultiSpeed

Appropriate hard metals

Talk to our experts to help you evaluate the appropriate hard metal to be coated with your CVD Diamond coating.

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