



# CCDia®CarbonSpeed®

## for Graphite and Green Materials

Ultra-hard against abrasion wear: CCDia®CarbonSpeed® is the coating solution when economical machining of graphite and green materials is required. Coatable on more than 80 carbides, its unique fine crystalline and smooth multilayer structure provides process reliability and best the workpiece surfaces.

### Application example

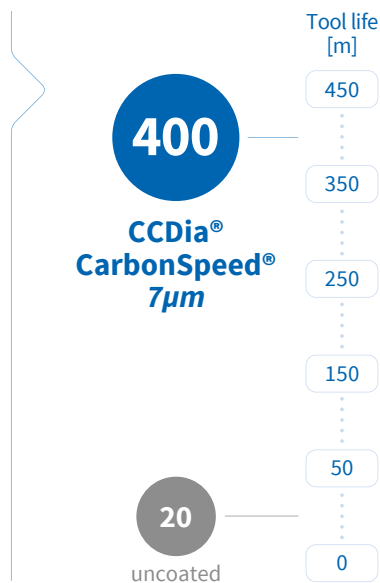
#### Cost-effectiveness combined with a highly reliable process

Material: **EDM graphite ISO-63**

Tool: **end mill**

$v_c = 600 \text{ m/min}$

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



### Technical data

Coating technology:

**Diamond**

Microhardness:

**10,000 HV<sub>0.05</sub>**

Composition of the coating material:

**Multilayer, sp<sup>3</sup>**

Color:

**Grey**

Max. operating temperature:

**650°C**

### Available coating thicknesses



Coating Thickness	Drill Bit	Ball End Mill	Chamfer Mill
≈ 7 µm	✓	✓	✓
≈ 9 µm	✓	✓	—

### 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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