



# CCDia® CarbideSpeed®

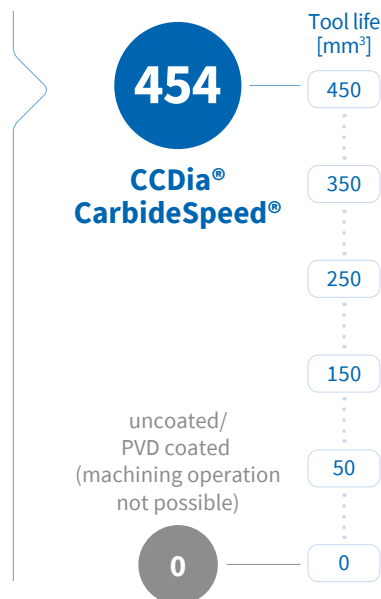
## Milling Sintered Carbide instead of Eroding

Milling hard metals instead of eroding them or grinding has enormous advantages: shorter cycle times, better surface quality, more environmentally friendly machining, no corrosion, and the production of more complex contours. With the newly developed CCDia® CarbideSpeed®, we offer tool manufacturers a precisely matched diamond coating material which creates ideal conditions even for the hardest operating conditions.

## Application example

### A milestone for tool and mold maker

Material: **Sintered Carbide, 20 % Co**  
 Tool: **Coated ball nose end mill**  
 $n = 30,000 \text{ min}^{-1}$   
 $v_f = 350 \text{ mm/min}$   
 $a_p = 0.15 \text{ mm}$   
 $a_e = 0.08 \text{ mm}$   
 $Q = 0.0042 \text{ cm}^3/\text{min}$



## 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-Shiny**

Max. operating temperature:

**650°C**

## 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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