

FerroCon®Quadro

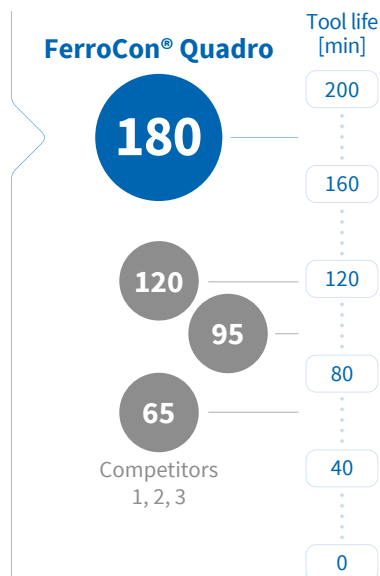
for Highest Wear Volume

With FerroCon®Quadro, up to 12 µm can be realized with strong adhesion! For the processing of cast iron and steel this gives completely new possibilities. Everywhere where thick chips fall, such as for heavy machining and turning certain materials, protective coatings are vital for the tool and ensure high productivity. Very smooth and adhesive coatings are deposited using PVD coating processes. However, many applications require thicker layers, which so far have been produced exclusively by CVD.

Application example

Extra high wear volume for roughing operations in steel and cast iron

Material: **1.0503 (C45), 32 HRC**
 Tool: **mill with cutting inserts**
 $v_c = 220 \text{ m/min}$
 $a_p = 0.5 \text{ m/min}$
Without cooling



Technical data

Coating technology:

HiPIMS

Composition of the coating material:

AlTiN-based

Color:

Anthracite

Max. operating temperature:

1,100°C

Coating thickness:

12 µm

suitable for cutting inserts with at least 40 µm hone