



COMPOSITE cutting

Milling and drilling tools with KOMET RHOBEST NanoDiamond coating – improvement of the economy of machining carbon- and glass fibre reinforced materials

The diamond film provides the coated tools with the excellent properties of diamond.

Today DIA-Composite is launched on the market and demonstrates customer advantages enhancing the efficiency and productivity of the processes clearly:

BENEFITS for you:

- Extreme hardness and highest wear resistance leading to increased lifetimes
- Very smooth surfaces and controlled thickness - thus required dimensional accuracy and tolerances are met
- Coated materials: tungsten carbide, ceramics
- Higher cutting parameters
- Higher quality of the finished surface of the component

For application in industrial production this means:

- Reduced tool costs
- Reduced machining time
- Extended maintenance interval
- Reduced set-up and maintenance costs
- High reliability

Customer Examples:

1. Web-cut of carbon-fibre composites: doubling of feed – bisection of cutting time
2. Peek-pitch (45% glass fibre): increase of life time of milling tools by factor 10
3. PCB: increase of life time by factor 4
4. Drilling of composite (carbon-fibre/aluminium/titanium – composite): increase of life time by factor 8