



## ALUMINIUM cutting

Milling and drilling tools with KOMET RHOBEST NanoDiamond coating – improvement of the economy of machining aluminium and aluminium-alloys

The diamond film provides the coated tools with the excellent properties of diamond. Within the last years the NCD-coating DIA-Aluminium was developed and optimised. Today DIA-Aluminium is established 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
- KOMET RHOBEST process guarantees preservation of the true running
- Coated materials: tungsten carbide, ceramics
- Higher cutting parameters (feed, speed, ...)
- Tailoring of the surface: improvement of chip forming, reducing of sticking – thus prevention of built-up edges

For application in industrial production this means:

- Reduced tool costs
- Reduced machining time
- Extended maintenance interval
- Reduced set-up and maintenance costs
- Reduced reconditioning of the surface of the finished component

Customer Examples:

1. Fabrication of chassis parts in motor sports: aluminium with 25% silicon-content leading to improved economy and profitability
2. Deep-hole drilling of engine blocks: increase of feed and life time