

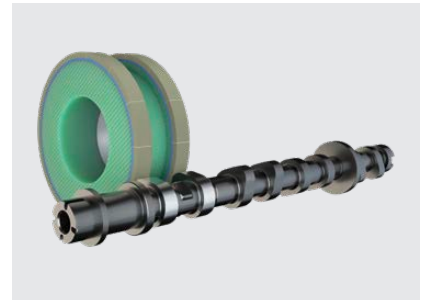
GENIS 2-FT

Vitrified bonded CBN grinding tools with fibre-reinforced lightweight core for external cylindrical grinding

GENIS 2-FT

With the GENIS 2-FT product line, Tyrolit is expanding its portfolio of lightweight cores with a fibre-reinforced composite carrier body for numerous external cylindrical grinding applications. In addition to weight reduction of up to 70 per cent, this tool concept is characterised by its special damping properties, which guarantee improved grinding results and increased quantities. GENIS 2-FT is a cost-effective alternative to GENIS 2-CF, which is particularly relevant for industries where a balance between performance and cost is crucial.

Application: GENIS 2-FT wheel for cam contour grinding of a car camshaft

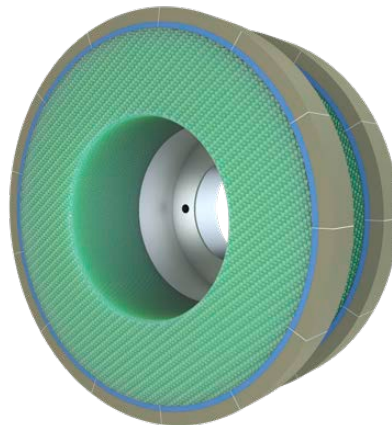


+ Weight optimisation:

GENIS 2-FT grinding tools have up to 70 per cent less weight compared to versions with a steel carrier body. This simplifies handling and protects the machine.

+ Replating possibility:

GENIS 2-FT tools can be replated several times by applying a new grinding layer. This significantly reduces the tool costs.



+ Highly economical:

The innovative core in conjunction with a customised grinding layer guarantees the highest stock removal rates and increases production capacity.

+ Best damping:

The use of fibre-reinforced composite carrier bodies reduces vibrations and significantly improves the quality of the workpieces (chatter marks, tolerance of run out, roundness).

Application example

External cylindrical grinding of the bearing points of a car crankshaft
 Tool dimensions 500 × 23 × 202.94 mm

Weight reduction of **63 %**

