

Machining

VIDEO: High-Performance Tools for Machining Fiber Composite Materials

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Modern fibre reinforced plastics (FRPs) are making an entry into a broad range of industrial applications for reasons of efficiency, weight reduction, strength and dynamics. With their specific properties, they extend the group of conventional metal lightweight construction materials such as aluminum and titanium alloys.

FRPs or multi-material combinations, e.g. a mixture of FRP and metallic materials, are therefore no longer exclusively retained for the aerospace industry, motorsport and other high-end applications. It is especially worth highlighting the great growth in the general automotive and commercial vehicle technology.

FRPs are applied where high specific strength and low weight as well as high dynamic or energy efficient processes can be found. For the machining of CFRP, GFRP and stacks (FRP-metal-layer composite) without component damage, cutting edge quality and wear resistance of the tool material are of absolute importance.

Guhring provides special solid carbide, coated carbide and PCD tooling solutions for these demanding materials. They are specially adapted to the respective material structure and ensure optimum chip evacuation as well as uniform hole diameters across all materials. *Watch the short video above to see some of the applications where Guhring's high-performance tools are making their mark.*

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