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Machining technology for composite materials is an essential reference particularly for process designers and tool and production engineers in the field of composite manufacturing, but also for all those involved in the fabrication and assembly of composite structures, including the aerospace, marine, civil and leisure industry sectors. ...

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Composite materials take the place of many metal parts of an aircraft. At first glance, they are machined through a similar process: cutting the desired part out of a larger block of material. However, machining composites is an exacting science that demands a specific set of skills and tools.

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Tool wear is a consequence of composite abrasiveness and low thermal conductivity that causes tool heating superior to what is normally observed in the drilling of metallic materials. In...

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The preferred tool material for composites and especially carbon fiber is polycrystalline diamond (PCD). Given how hard diamond is, these tools can stand up to the abrasive nature of the composite machining process much better than plain carbide tooling. A good PCD tool can run 3x faster in composites and last as much as 25x longer than carbide.

~~Machining Carbon Fiber: Quick Guide [Composites, Drilling ...~~

Composite Machining Guide. A34www.kennametal.com Machining Guides • Composite Machining Guide. Composite Machining. For decades, the aircraft industry has utilized composite materials in multiple applications, including flight surfaces and some internal cabin parts. Unfortunately, these materials are unique to each design in their fiber layering techniques, resins, and curing processes, which creates great challenges to consistency in manufacturing and assembly.

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