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directional composites, materials that are growing in use in the aerospace sector. An example is Sandvik Coromant's PCD-veined cutting tools for drills, mills and end mills.

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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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internal cabin parts.

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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 ...

H.A. Kishawy, in Machining Technology

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for Composite Materials, 2012. Abstract: Metal matrix composite materials (MMCs) offer various mechanical properties that are not offered by conventional unreinforced monolithic metal counterparts; specifically, high temperature stability, specific strength, and wear resistance. As a result, these composite materials have different

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applications in several industries including automotive and aerospace.

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Tool materials for machining composites vary significantly, depending on the application (trimming, drilling or surface finishing) and whether it is a roughing tool or a finishing tool. The baseline tool material is carbide, followed by coated carbide.

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Machining composite materials is quite a complex task owing to its heterogeneity, and to the fact that reinforcements are extremely abrasive. In modern engineering, high demands are placed on components made of composites in

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relation to their dimensional precision as well as their surface quality.

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