CVD DIAMOND COATING TECHNOLOGY

for Cuttting Tools

Routers



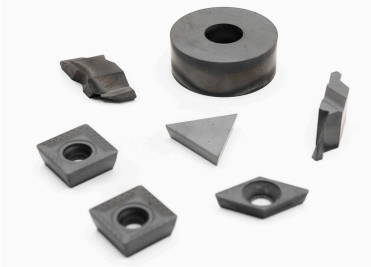
Being an industry leader for more than 30 years in the successful development of CVD diamond coatings for cutting tools, our capabilities reach far beyond into diverse and emerging market segments. By working closely together with our customers, this expertise facilitates a common approach to providing solutions to their daily requirements.

End Mills

CVD diamond's performance benefits are well documented for machining materials such as graphite, green ceramics, ceramic matrix composites, abrasive non-metallic materials, non-ferrous metals, abrasive non-ferrous metals, filled plastics, glass fiber composites, Kevlar composites, and CFRP. Its unparalleled hardness extends tool life significantly and makes CVD diamond ideal for round cutting tools and inserts.



Inserts



Different applications require different coating thicknesses and characteristics. At sp3, we have developed a wide variety of process instructions that produces coating thicknesses from 3um up to 50um. In addition, we can produce smooth, rough, low stress, compressive or tensile coatings, all tuned to the customer's application.

Contact us for more details on these variables and how they affect performance.

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