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PVD Hard Coating Services

Patented CatArc® Coatings

VTI's patented CatArc® vacuum coating process produces hard, wear resistant coatings for a variety of applications such as medical, injection molding, and metal cutting/forming. CatArc® coatings can be applied at low temperatures, as low as 350° F, allowing temperature sensitive tool steels to be coated without concern for dimensional or hardness changes.

Sputtered Coatings

In addition to CatArc® process, VTI offers high energy sputtered coatings. Sputtering is a Physical Vapor Deposition (PVD) process applied at (800° F) Temperatures. These smooth and very hard coatings are primarily utilized in metal cutting tool applications. Drills, taps, hobs, end mills, etc. show greatly reduced wear and exhibit outstanding longevity. Coating compositions include [Sputtered TiN](#), [Sputtered TiAlN](#), [Sputtered TiCN](#), and [Sputtered TiB2](#).

Available coatings include [CatArc® TiN](#), [CatArc® CrN](#), [CatArc® ZrN](#), [CatArc® TiCN](#) and [CatArc® CatArc Black Cat](#). These ceramic coatings dramatically extend tool life versus uncoated parts. Other benefits may include reduced friction (improved lubricity) and improved thermal isolation, which are especially important in injection molding applications.

Expert Assistance

Please refer to our [Coating Selection Guide](#) page for recommendations on which coating to use in various machining applications. Please also visit our [Cutting Tools and Punches](#) and [Electronics](#) pages for more information on these applications.

[Click here to download our Hard Coating Check List Form](#)

Contact our Coating Services division to speak directly with one of our expert staff members regarding your specific applications.

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