

Accusharp launched an in-house coating plant with the new advanced HiPIMS PVD Coating Technology

The global machine tools market is worth \$115 billion in 2020. A number that is expected to rise to \$157.5 billion in the next five years, a compound growth rate of 5.5%. There is no denying the fact that precision tools are in high demand, but hard machining is a demanding application, and reliable tool life is only possible with a coating adapted to the tool.

To meet this demand, Accusharp Cutting Tools Pvt. Ltd., has launched an in-house coating plant with the new advanced HiPIMS PVD Coating Technologies - InoxaCon Coating and Ferrocon Coating. While Ferrocon coated tools can be used for machining unalloyed steel, alloyed steel and high-speed steel, Inoxacon coated tools can be used for machining stainless steel, high-alloy steel and titanium. Both the coating technologies use the TiAlSiN (titanium aluminium silicon nitride)-based hybrid PVD coating technology to coat tools.

While Chemical Vapour Deposition (CVD) has been the industry standard for years now, but applications requiring



In House Advanced Coating

The Advanced HiPIMS PVD Coating Technology For Increasing

- Smoothness of Tools
- Toughness of Tools
- Hardness of Tools

Results In

- Resistance to Tool Wear
- Longer Life of Tool

a sharp cutting edge face a hurdle. Due to the thick nature of CVD coating, round solid-carbide cutting tools cannot be coated. Moreover, the unidirectionally arranged crystals create a barrier in the direction of the cutting zone, thus affecting tool performance. PVD coating methods eliminate these shortcomings. HiPIMS technology combines the advantages of all PVD coating technologies without the need to use any toxic or environmentally hazardous chemicals.

Accusharp Cutting Tools Pvt. Ltd. is one

of the few machine tool manufacturers in India to bring this high-end technology to the country. "Accusharp has for long been one of the important drivers in the machine tooling industry in India. We are widely recognised as an Indian company with a global business culture, which makes us the first choice for special cutting tools for a number of local companies and MNCs. By investing in HiPIMS technology and bringing InoxaCon and Ferrocon, we are looking to further consolidate our market position. Our customers expect us to provide them with world-class solutions. This is another step in that direction", says Ilyas Shaikh, Managing Director of Accusharp Cutting Tools Pvt. Ltd.



"We have tested InoxaCon and FerroCon materials for different machining applications and materials, and have found that tool life increased substantially in all cases." Further elaborating how this technology will benefit the industry, Ilyas Shaikh says, "For difficult to machine hard materials, precision provides a decisive advantage.

Premium Coatings For Your Precision Tools



HiPIMS - FerroCon Coating For

Unalloyed Alloyed High-Speed Steel

Technical Data

Coating Technology : **HiPIMS**
 Coating Material : **AlTiN**
 Color : **Anthracite**
 Max. Operating Temperature : **1100°C**

HiPIMS InoxaCon Coating for

Hardened Steel up to 70 HRC

Stainless Steel Titanium High Alloyed Steel

Technical Data

Coating Technology : **HiPIMS**
 Composition of the Coating Material : **TiAlSiN**
 Color : **Copper**
 Max. Operating Temperature : **1100°C**

Results In • Resistance to Tool Wear • Longer Life of Tool