

AlCrN goes HiPIMS: MultiCon®—The new all-rounder for steel machining

CemeCon ensures premium quality worldwide

As a HiPIMS coating material based on AlCrN, MultiCon® has a particularly wide range of applications in steel machining. Through international coating centers and partner companies CemeCon makes it possible that customers receive the best coating quality with MultiCon® wherever they are: Mirrored processes and productions as well as sophisticated logistics ensure consistent quality worldwide!

“Many tool manufacturers are active globally now,” says Inka Harrand, Product Manager Cutting Inserts at CemeCon, describing the situation. “Our customers naturally want their coating partner to reliably guarantee the same quality standards everywhere. They are also very interested in avoiding long transportation routes and the hurdles of legal import regulations.” Challenges that CemeCon meets with an international network of coating centers and partners. The CemeCon subsidiaries in the USA, China and Japan as well as the partner companies in India and South East Asia guarantee both the consistently high, reproducible coating quality of the technology leader and efficient logistics on all relevant global markets.

The new HiPIMS coating material MultiCon® is a convincing example of global technological consistency. Being extremely versatile, it enables the machining of soft to medium-hard steel, an AlCrN based on HiPIMS technology for the first time. Analyses show: MultiCon® significantly increases productivity in practice, enables long tool life and maximum process reliability—especially in comparison with arc variants. This is due to the extremely smooth, dense, homogeneous and high-temperature-resistant coating that can be achieved with HiPIMS. Designed for a particularly wide range of applications, MultiCon® is therefore an important “top performer” in steel machining.

CemeCon coatings—an internationally competitive advantage

For companies that operate globally, the wide availability of high-performance coating materials such as MultiCon® means high-end coating results at a consistently high level of quality. Regardless of where the coating center is located, the promise applies: ‘developed in Germany—guaranteed quality worldwide’. In view of the challenge of remaining competitive as a tool manufacturer in particularly price-sensitive markets, the concept plays to its strengths.

“Our customers benefit in two ways: We combine the development expertise of our CemeCon headquarters in Würselen with the in-depth know-how of our regional contacts who can operate locally, overcoming linguistic, cultural and operational distances. This simplifies logistics.” says Manfred Weigand, Product Manager Round Tools at CemeCon. “Technically, the CemeCon subsidiaries and partners are always closely accompanied and receive comprehensive support in order to guarantee our high level of quality and service wherever it is needed.”

About CemeCon AG

CemeCon is the world market leader in diamond coating and technology leader in PVD coating of precision tools for machining. The coating materials required for premium coatings are produced within the coating systems developed by CemeCon.

Customers make use of the company's expertise in both coating services and plant engineering. Renowned tool manufacturers worldwide use the technology and expert knowledge of CemeCon for their own competitive advantage and to open up new business areas.

CemeCon has brought the future technology HiPIMS to market maturity. It combines the advantages of all common PVD coating processes – and that with high economic efficiency. With HiPIMS, maximum performance and a significantly longer tool life are possible even when machining materials that are extremely difficult to machine. Maximum productivity in the machining of innovative materials – such as fibre-reinforced plastics, ceramics or graphite – is guaranteed by the patented multilayer technology in diamond coating developed by CemeCon.

Founded in 1986 by Dr. Toni Leyendecker, CemeCon AG has expanded continuously over three decades. At its headquarters in Würselen, the company operates the world's largest coating center. All important international markets are served from there and from the centers in the USA, China and Japan as well as by our sales partners in the Czech Republic, Denmark, Taiwan, Korea, India and Russia.

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