MultiCon®

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





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

NEW: For wet and dry processing of steel and cast iron

AlCrN coatings have been established for a long time in steel processing, mostly using the arc process. Despite proven efficiency, performance gains have recently stagnated—until now: the HiPIMS technology is providing new impetus. It enables extremely smooth, dense, and adhesive coatings. With MultiCon®, CemeCon presents the next evolutionary stage of its HiPIMS-based AlCrN coating—significantly more powerful than arc alternatives.

Steel is ubiquitous in industrial manufacturing and demands maximum performance from tools and coatings. With its latest HiPIMS coating material MultiCon®, CemeCon offers a high-performance solution specifically for milling and drilling cast iron and steels between 30 and 50 HRC.

MultiCon® combines excellent adhesion, an extremely smooth surface, and optimized wear behavior to take machining quality and tool life to a new level—both in wet and dry machining.

Hardened steel, stainless steel, or cast iron—CemeCon always offers the right solution.

MultiCon® perfectly complements the steel processing portfolio beside FerroCon® and InoxaCon®.



Optimal for steel from 30 to 50 HRC

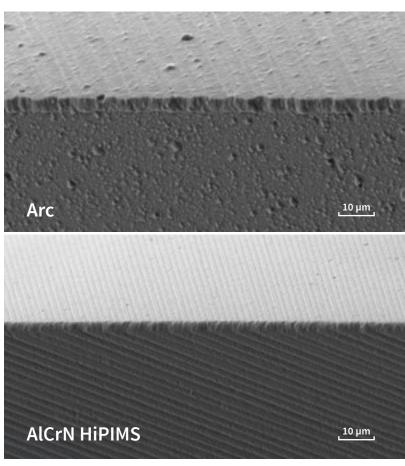
MultiCon® rounds off the HiPIMS portfolio between FerroCon® (for soft steels) and InoxaCon® (for medium-hard steels and stainless steel). The new coating material was developed specifically for steel from 30 to 50 HRC.

Proven longer, reproducible tool life

Reports from practice prove that MultiCon® increases tool life when milling tempered steel by around 30%, and in some cases even up to 80%. This is the result of optimal coordination between tool geometry and coating, developed jointly with tool manufacturers.

AlCrN at the highest level

MultiCon® combines HiPIMS technology with the strengths of AlCrN—for maximum process reliability and performance in steel processing. A future-proof solution for modern manufacturing requirements.



MultiCon®: The HiPIMS advantage over conventional arc coatings

MultiCon® in detail

Coating technology: **HiPIMS**

Properties:

optimal wear behavior, excellent adhesion, extremely smooth

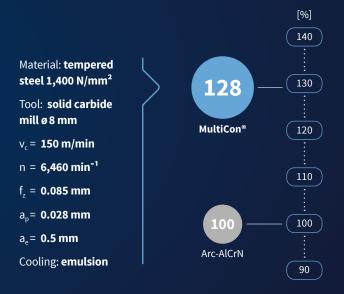
Coating material: AlCrN-based

Max. operating temperature: 1,100 °C

Color: dark gray

Coating thickness: **3 µm** (for shank tools)

Application example: milling







Our experts are just a phone call away!

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