

Example parts coated on PVD coating system

COATINGS

Predictable, fast, value-adding

Optimize the efficiency of your precision components and active tool parts. With our Oerlikon PVD coating system INNOVENTA kila, we offer six different hard material coatings for a wide variety of materials and applications. By displaying the coating calendar, you can control your processes with pinpoint accuracy. Precisely defined coating times for each coating type guarantee short and, above all, predictable delivery times.

This means predictable, fast and value adding coating of your components.

Benefit from these advantages:

- Wide range of application and excellent wear resistance for coatings
- Higher productivity through significantly longer service life of your precision components and active tool parts
- Excellent coating adhesion, improved demolding behavior and higher surface quality of precision components
- Reduction of abrasive and adhesive wear

BIHLER

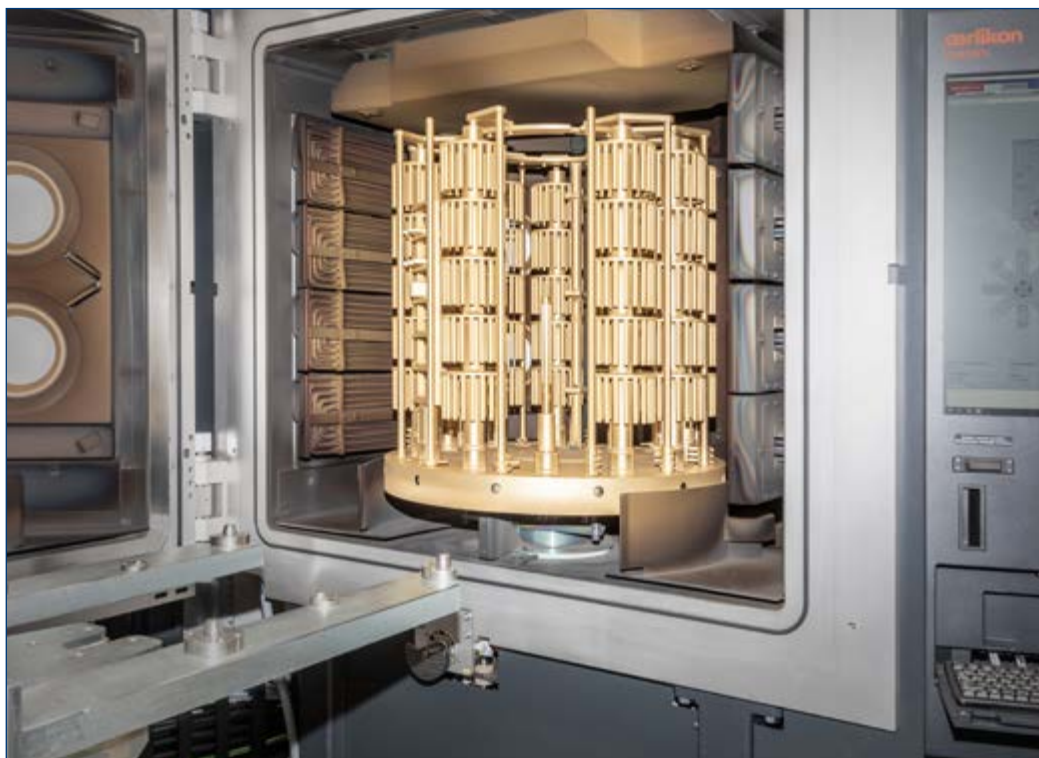
FEATURES

Bihler coating systems at the highest level

Depending on the application and the material, the following hard material coatings can be applied.

COATING TYPE	HARDNESS (HITGPA)	THICKNESS	PROPERTIES	APPLICATIONS
BIHLER A TiN	30 +/-3	2 - 2,5 µm	Versatile standard coating	Steel processing, friction reduction
BIHLER D CrN	18 +/-3	2 - 2,5 µm	High corrosion and oxidation resistance	Copper processing, warm forming
BIHLER FUTURA NANO TiAlN	33 +/-3	2 - 2,5 µm	Higher thermal and chemical resistance, better gliding properties	Tools with high thermal and abrasive stress
BIHLER ALCRONA PRO AlCrN	40 +/-3	2 - 2,5 µm	Excellent wear resistance,	Great all-round solution for stamping and forming
BIHLER ALCRONA PRO EVO* AlCrN	44 +/-4	2 - 2,5 µm	Improved coating properties, 30% increase in performance compared to ALCRONA PRO	Non-ferrous materials, polymers, aluminum-aluminum; copper
BIHLER MAYURA* ta-C	>65	0,3 µm	Improved coating properties, maximum precision when punching and forming non-ferrous metals	Non-ferrous materials, polymers, aluminum-aluminum; copper

* available from Q2/2025



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(subject to change without notice 10/24)