



# 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 currently 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

# 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
<b>BIHLER A</b> <b>TiN</b>	30 +/-3	2 - 2,5 $\mu$ m	Versatile standard coating	Steel processing, friction reduction
<b>BIHLER D</b> <b>CrN</b>	18 +/-3	2 - 2,5 $\mu$ m	High corrosion and oxidation resistance	Copper processing, warm forming
<b>BIHLER FUTURA</b> <b>NANO</b> <b>TiAlN</b>	33 +/-3	2 - 2,5 $\mu$ m	Higher thermal and chemical resistance, better gliding properties	Tools with high thermal and abrasive stress
<b>BIHLER ALCRONA</b> <b>PRO</b> <b>AlCrN</b>	40 +/-3	2 - 2,5 $\mu$ m	Excellent wear resistance,	Great all-round solution for stamping and forming
<b>BIHLER MAYURA</b> <b>ta-C</b>	>65	0,3 $\mu$ m	Improved coating properties, maximum precision when stamping and forming non-ferrous metals	Non-ferrous materials, polymers, aluminum-aluminum; copper



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