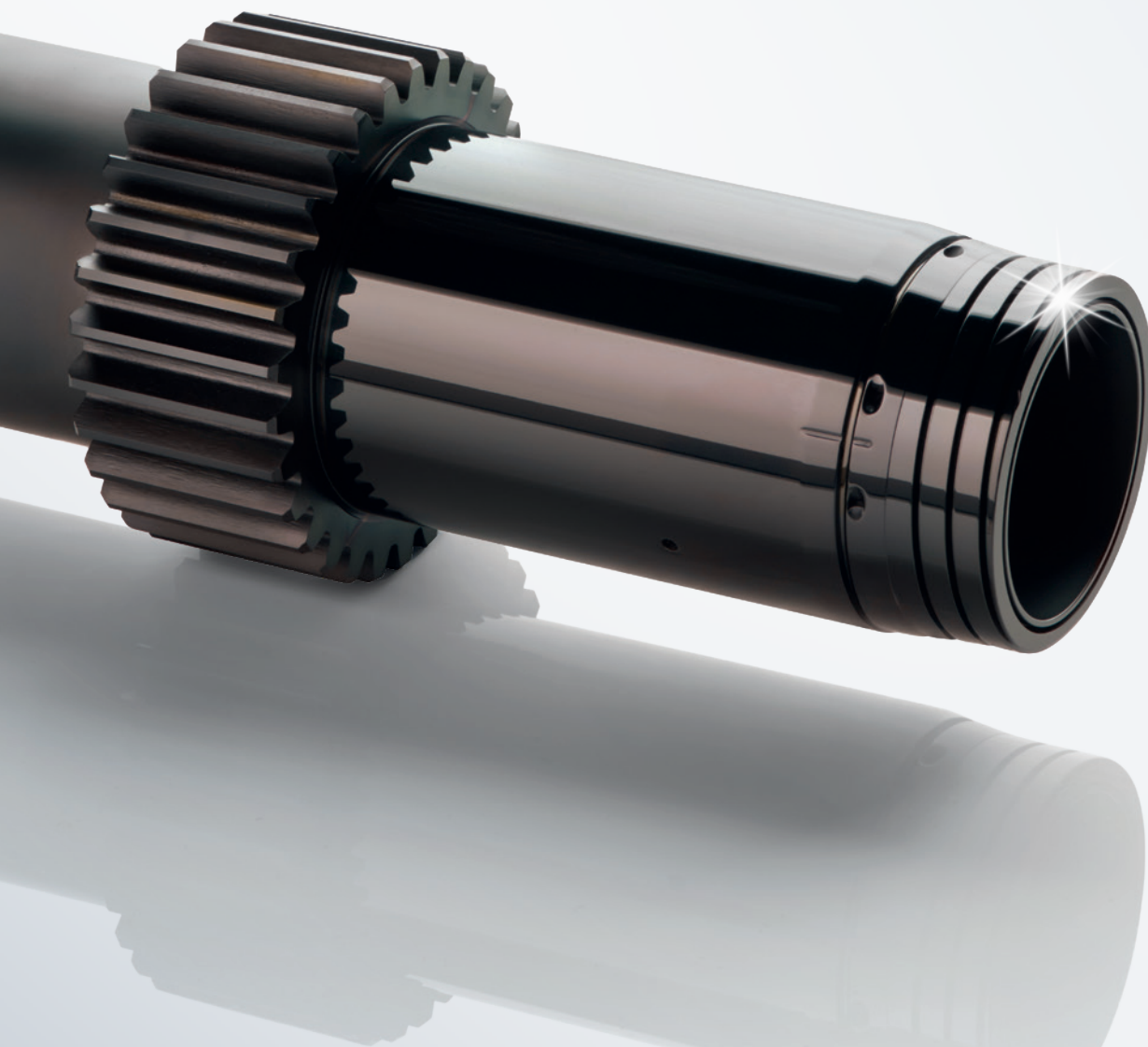


# **BALINIT CAVITA**

Precision in Every Detail



**Plastic Processing**



# BALINIT® CAVITA – Perfect surfaces for complex mold geometries

Whether it's complex geometries, deep cavities, or sharp edges, BALINIT® CAVITA reaches the tiniest details on molds for medical plastic components. When micron-level precision is crucial, our PACVD coating, BALINIT® CAVITA, sets a new benchmark by ensuring superior adhesion and homogeneous

coverage, delivering consistent quality in high-volume plastic injection molding. BALINIT® CAVITA enables manufacturers to achieve efficient high-quality production by stabilizing the manufacturing process and extending tool service life.

## BALINIT® CAVITA applications

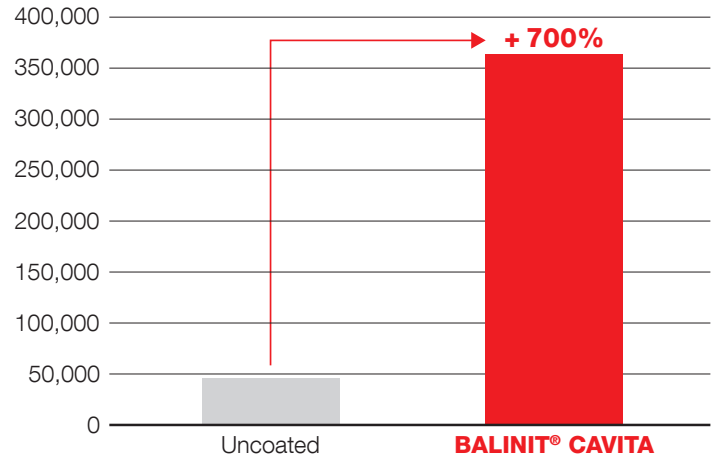
BALINIT® CAVITA is ideal for producing medical plastic parts such as

- Pipettes
- Blood collection tubes
- Caps
- Syringes
- Injector pens



## BALINIT® CAVITA Unscrewing cores

Maintenance-free production [cycles]



<b>Tool</b>	Unscrewing cores H13 48 HRC
<b>Part produced</b>	Medical test kit, cap
<b>Challenge</b>	Downtime reduction
<b>Benefit</b>	Maintenance interval prolonged from daily to approximately once a week
<b>Source</b>	Global OEM, medical industry

## Coating properties at a glance: BALINIT® CAVITA

<b>Coating material</b>	a-C:H:Si
<b>Coating hardness <math>H_{IT}</math> [GPa]</b>	16+/-4
<b>Compressive stress [GPa]</b>	-0.5
<b>Max. service temperature [°C]</b>	300
<b>Coating temperature [°C]</b>	250
<b>Coating color</b>	Dark brown

**Experience the next level of performance with BALINIT CAVITA.  
Discover the benefits – Connect with us!**

### Balzers Headquarters

Oerlikon Balzers Coating AG  
Balzers Technology and Service Center  
Iramali 18  
9496 Balzers  
Liechtenstein  
T +423 388 7500

For our global locations,  
please refer to:  
[www.oerlikon.com/balzers](http://www.oerlikon.com/balzers)

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