

BALINIT FORMERA

The coating solution for Cold Forging fasteners and components



Cold forging is being used in a wide variety of industries including fastener, automotive etc. Cold forged components are of high accuracy and surface quality.

However, the plastic flow characteristics of the workpiece have to be improved by high quality tooling with added performance delivered by premium coatings.

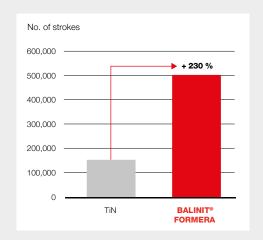
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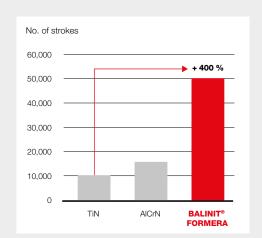


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BALINIT® FORMERA Performance



Tool	Extrusion die Ø 60 mm, 5 station cold former Collar nut manufacturing	
Tool material	HSS 1.3243 – AISI M35 ial	
Challenge	Difficult forward extrusion process wears out the die	
Solution	Tool life increased by 200 % Higher productivity due to less frequent tool changes	
Source	Automotive fastener supplier, Europe	



Tool	Piercing punch Ø 19 mm	
Tool material		
Challenge		
Solution	Tool life increased by 400 % Burr formation reduced	
Source	Global leader in cold forming components	

BALINIT® FORMERA delivers superior performance in cold forging applications

- Excellent results in forward and backward extrusion, piercing, upsetting and trimming
- Better surface quality (reduced roughness) of the workpiece
- Reduction of burr after piercing operations

Take advantage of outstanding coating properties

	BALINIT® FORMERA*
Coating material	CrAIN-based
Coating hardness H _{IT} (GPa)	28 ± 2
Coefficient of friction (dry) vs. steel	0.35
Max. coating temperature (°C)	480
Coating colour	silver-light grey

^{*} Available in BALINIT® ADVANCED Series

Benefit from the BALINIT FORMERA coating solutions Contact us now

given data are approximate values and dependent on application, environment and test conditions.