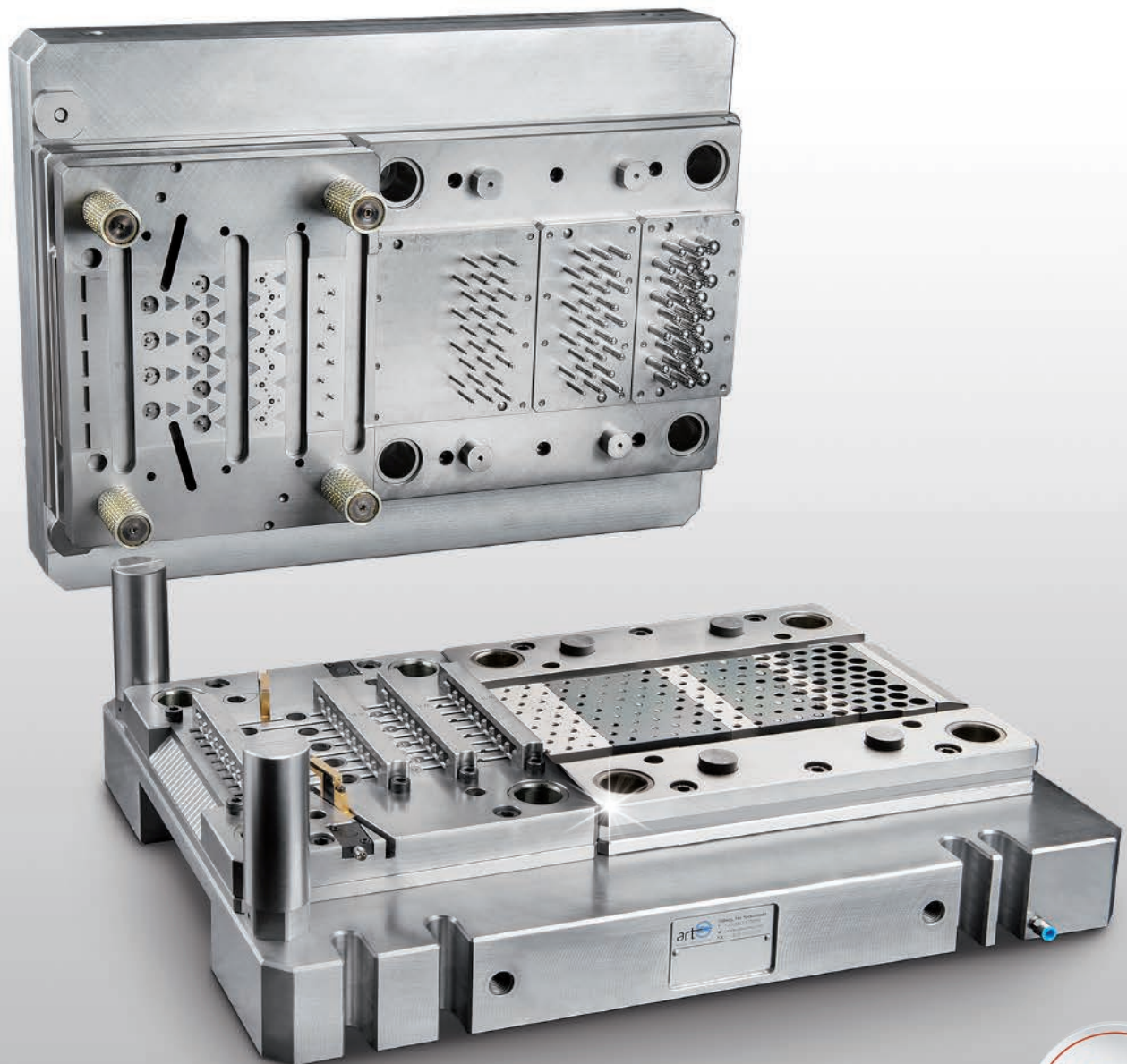


# BALIQ ALCRONOS

The ultimate coating solution for precision stamping CuNiSi high-performance alloys

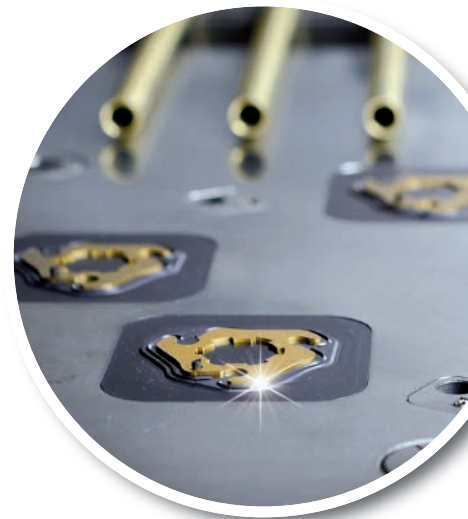


**Metal Forming**

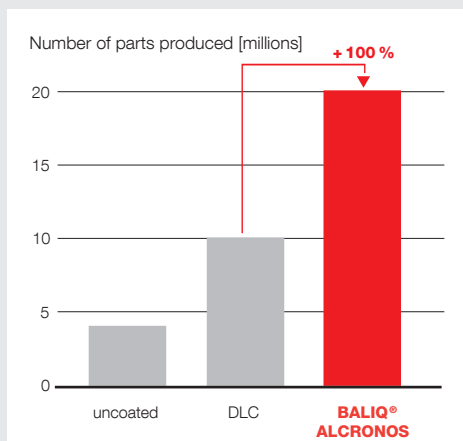


# BALIQ ALCRONOS – the best choice when it comes to precision stamping of CuNiSi high-performance alloys

The continuous miniaturisation of precision electronic components and an ever increasing requirement for performance raise new challenges for the stamping processes involved. Precision punches and dies used to manufacture these parts demand high performance surface solutions which offer extremely tight tolerances and at the same time enable high productivity gains and stable part quality. BALIQ® ALCRONOS offers decisive advantages in the manufacture of high-precision CuNiSi alloy parts.



## BALIQ® ALCRONOS in precision stamping



<b>Tool</b>	Carbide stamping punch
<b>Workpiece</b>	Micro press-fit pin (needle eye design) CuNiSi alloy
<b>Challenges</b>	- Primarily abrasive wear - Sticking - Component quality
<b>Solution: BALIQ® ALCRONOS</b>	- 5x longer tool life - Minimal burrs - Less scrap
<b>Source</b>	Asian Tier-1 Electronics industry

## BALIQ ALCRONOS: the solution to a range of challenges

### How you benefit:

- Superbly smooth coating with outstanding adhesion
- High precision in the coating thickness with excellent cutting edge stability
- High coating hardness and wear resistance

## Benefit from outstanding coating properties

	BALIQ® ALCRONOS
Coating material	AlCrN-based
Coating hardness $H_{IT}$ (GPa)	37 ± 3
Residual stress (GPa)	- 3.5 ± 1
Max. coating temperature (°C)	< 500
Coating colour	Light grey

All of these values are approximate and depend on the respective application as well as the ambient and test conditions.

## Contact us today to benefit from BALIQ ALCRONOS!

**Headquarters Balzers** | Oerlikon Balzers Coating AG | Balzers Technology & Service Centre  
Iramali 18 | LI-9496 Balzers | Liechtenstein | T +423 388 75 00 | [www.oerlikon.com/balzers](http://www.oerlikon.com/balzers)