

oerlikon
balzers

BALINIT MAYURA

The beauty of precision
精准之美

Stamping non-ferrous
metals reimagined
有色金属材料冲压

Metal Forming



BALINIT MAYURA – the next generation of carbon-based coatings for stamping non-ferrous metals

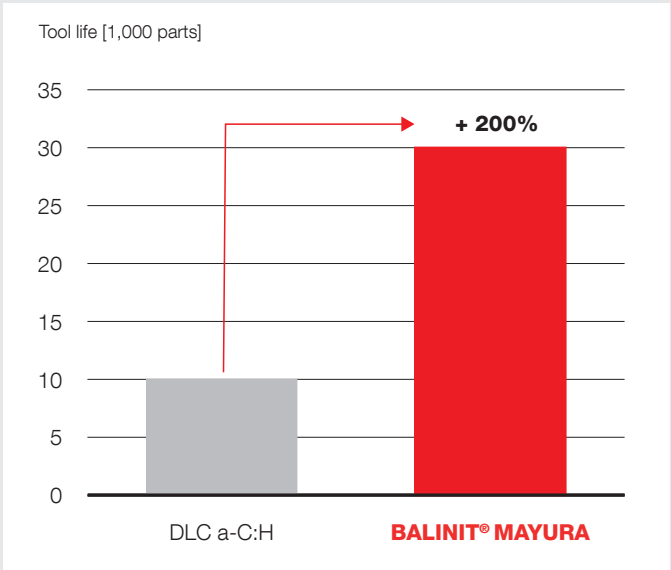
下一代有色金属材料冲压的碳基涂层

BALINIT® MAYURA catches the eye with its brilliant colours, and reveals its true value in the demanding stamping of non-ferrous metals. The coating is harder and smoother than previous coatings, which minimises material adhesion, and it is extremely thin, which keeps cutting edges sharp. Tool manufacturers and end users benefit from increased tool life, maximum precision and higher productivity in the manufacturing process. BALINIT® MAYURA takes stamping of non-ferrous metals to the next level, whether it's aluminium or copper alloys (e.g. phosphor bronze or brass).

BALINIT® MAYURA以其鲜艳的颜色吸引眼球，并展示了其在有色金属材料严格的冲压过程中的真正价值。这种涂层比以前的涂层更硬、更光滑，最大限度地减少了材料的粘着，而且它非常薄，可以保持切削刃锋利。工具制造商和终端用户都将受益于延长的工具寿命、最准确的精度和更高的生产效率在制造过程中。

BALINIT® MAYURA将有色金属材料的冲压技术提升到一个新的水平，无论是铝或铜合金(例如磷青铜或黄铜)。

BALINIT MAYURA – forming of 4 mm thick aluminium 加工4毫米厚的铝	
Tool 工具	Punch 冲裁 X155CrMoV12 / 1.2379 / D2 58-60 HRC 120 × 116 × 53 mm
Workpiece 工件	Aluminium 铝 7075-T=4 mm
Challenge 挑战	- Reduce visual defects due to sticking 减少因粘连造成的视觉缺陷 - Reduce polishing time 减少抛光时间
Benefit 优势	- Lower scrap rate 更低的报废率 - Less polishing time 更少的抛光时间 - Better productivity 更高的生产率



Outstanding coating properties ...

出色的涂层特性专为有挑战性的应用

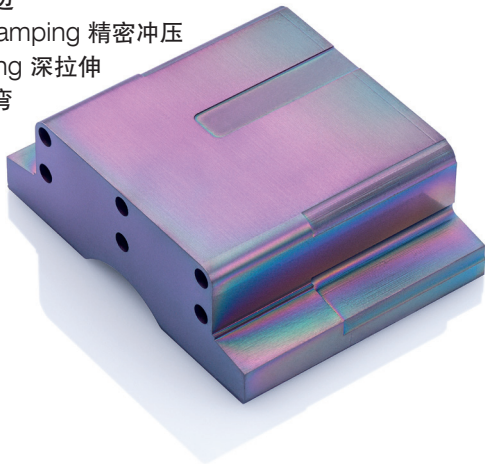
	BALINIT® MAYURA
Coating material 涂层材料	ta-C
Coating hardness H _{IT} [GPa] 涂层硬度	> 65
Coefficient of friction (dry) 摩擦系数 (干)	< 0.10
Max. service temperature [°C] 最高涂层工作温度	> 500
Coating thickness [µm] 涂层厚度	0.3 / 0.8 / 1.5
Coating temperature [°C] 涂层温度	< 150
Coating colour 涂层颜色	rainbow / rainbow black* 彩虹色/暗彩虹色

... for challenging applications

Taking your stamping process to the next level

引领您的冲压到下一等级

- Aluminium alloys 铝合金
- Copper alloys (e.g. phosphor bronze or brass) 铜合金 (磷青铜或黄铜)
- Trimming 修边
- Flanging 翻边
- Precision stamping 精密冲压
- Deep drawing 深拉伸
- Bending 折弯



* Variations in colour depend on tool dimensions, applications and geometry.
All given data are approximate values and depend on application, environment and test conditions. 颜色的变化取决于工具的尺寸、应用和几何形状。所有给定的数据都是近似值，取决于应用、环境及测试条件。

Discover how BALINIT MAYURA boosts performance.
Contact us now!
即刻联系我们！获取更多关于BALINIT MAYURA的信息

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