

BALIQ A

The smoothest way to
reliable threading



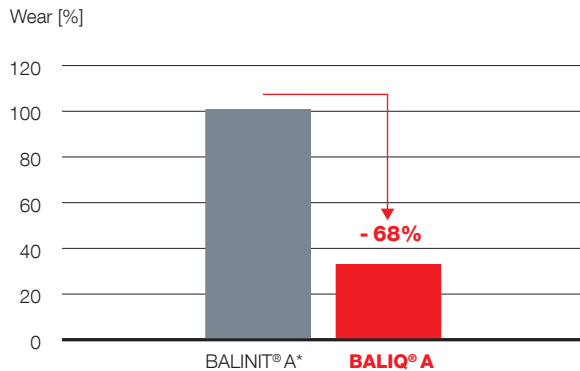
Built for reliable thread production

Trusted TiN performance with premium coating quality

BALIQ® A combines Oerlikon's pioneering TiN expertise with the advanced S3p® technology, delivering exceptional smoothness and outstanding coating adhesion. Designed for threading applications across a wide range of materials,

the PVD coating enables stable and reliable production, reproducible results, and consistent performance. Validated by tapping manufacturers worldwide, the TiN-based coating has been proven under real production conditions.

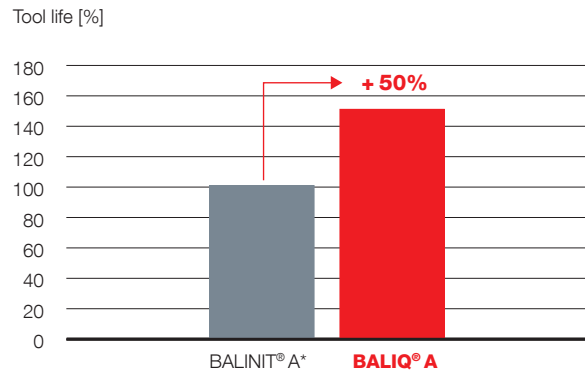
Reduced wear with BALIQ A



Tool	Spiral point tap M6x1
Workpiece	Carbon steel C45
Cutting data	Cutting speed $v_c = 20$ m/min Spindle speed $n = 1'061$ min ⁻¹ Thread depth $l = 18$ mm / 3xD
Benefit	Significantly reduced wear
Source	Cutting lab Balzers

* Based on Ionitron technology (BAI 830)
All given data are approximate values and depend on application, environment and test conditions.

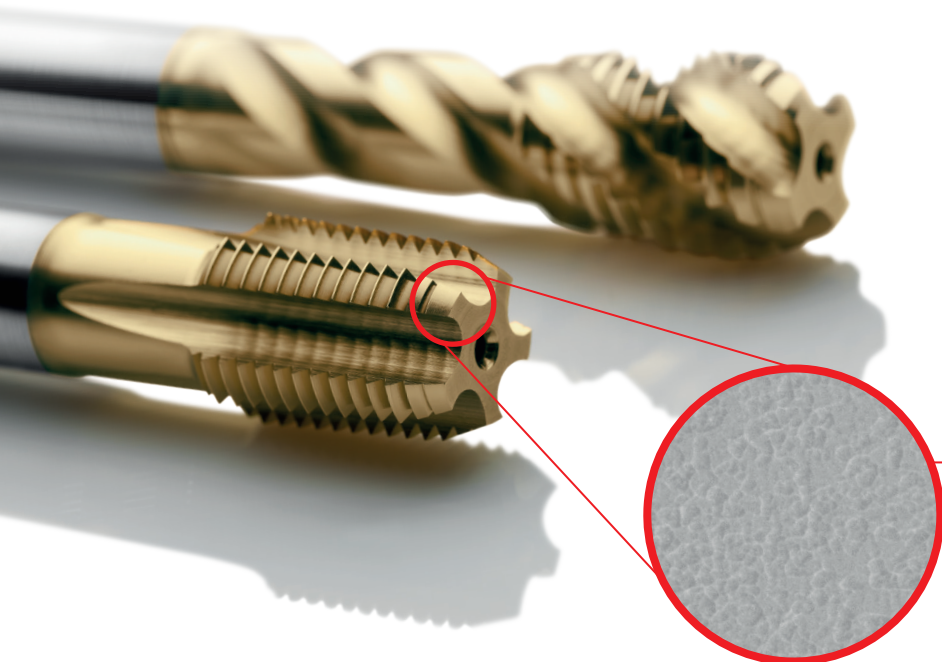
Increased tool life with BALIQ A



Tool	Spiral point tap M16x2
Workpiece	High-strength steel Cylindrical bush, $l = 10$ mm
Cutting data	Thread depth = 10 mm
Benefit	50% increase in tool life
Source	End customer project by European tool manufacturer

Advantages at a glance

- Reliable thread production without post-treatment
- Consistent performance and results in various tapping applications
- Precise thread formation through preserved cutting-edge geometry
- High process stability across a wide range of materials



Exceptionally smooth coating surface



Visit our website for more test results and detailed information:
oerlikon.com/balzers/baliq-a

Improve your threading applications with BALIQ A.
Reach out to our experts!

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