

**Are you ready for BALIQ INSERT ALTINOS?
Contact us now!**

Headquarters

Oerlikon Balzers Coating AG
Balzers Technology and
Service Centre
Iramali 18
LI-9496 Balzers
Liechtenstein
T +423 388 7500
www.oerlikon.com/balzers

Liechtenstein

Oerlikon Balzers Coating AG
Coating Centre
Iramali 18
LI-9496 Balzers
T +423 388 5701
www.oerlikon.com/balzers/ch

Germany

Oerlikon Balzers Coating
Germany GmbH
Am Ockenheimer Graben 41
D-55411 Bingen
T +49 67 21 7 93-0
www.oerlikon.com/balzers/de

Japan

Oerlikon Nihon Balzers
Coating Co., Ltd.
7-2-2 Shinomiya, Hiratsuka-City,
Kanagawa-Pref. Japan 254-0014
T +81 463 54 2220
www.oerlikon.com/balzers/jp

Korea

Oerlikon Balzers Coating Korea Co. Ltd.
Standard factory #3, 15,
Jayumyeok 2-gil
Jeollabuk-do
Gunsan 573-540
South Korea
T +82 63 460 9901
www.oerlikon.com/balzers/kr

USA

Oerlikon Balzers Coating USA Inc.
1475 E. Woodfield Road
Suite 201
Schaumburg, IL 60173
United States
T +1 847 619 5541
www.oerlikon.com/balzers/us

Our worldwide coating centre network
addresses are listed at:
www.oerlikon.com/balzers

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BALIQ INSERT ALTINOS

The coating revolution for finishing applications.



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BALIQ INSERT ALTINOS: innovative machining with high process reliability.

BALIQ™ INSERT ALTINOS

The technological progress

Revolutionary smooth and defect-free coatings with outstanding adhesion

High wear resistance of AlTiN-based coatings even at high service temperatures

High coating thickness precision and precise coating of even the sharpest cutting edges

Low susceptibility to sticking of AlTiN-based coatings

The hands-on advantages

Top-tier coating surface quality for high component quality

Very high thermal stability of the tool, resulting in long tool lives with perceptibly fewer tool changes

Significant performance gains mainly with smallest chip thicknesses and optimised component surface quality

No adhesion and built-up edge formation even for difficult-to-machine materials such as titanium and stainless steels

Reliable machining of critical and expensive workpieces

Perceptible cost and time savings

Superior performance even for difficult-to-machine materials

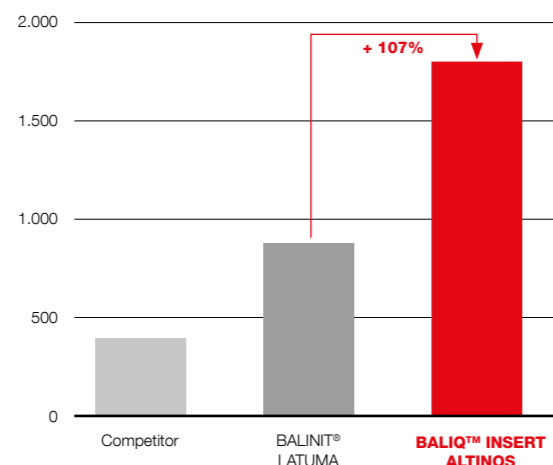
New manufacturing options with high process reliability and efficiency



Impressive for grooving and finish machining:

BALIQ™ INSERT ALTINOS for grooving in steel

Tool life (number of parts)



Tool
Carbide insert (grooving)

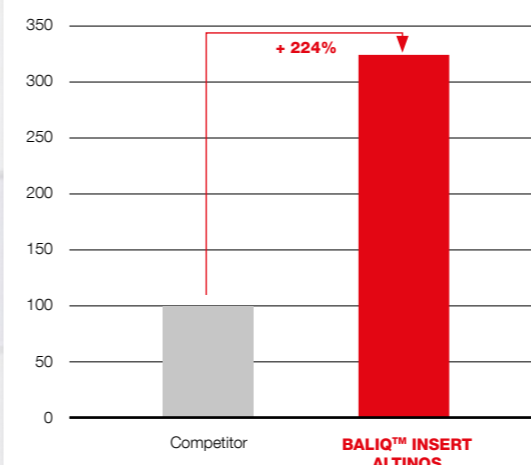
Workpiece
Steel 1.7225 (AISI1040, SCM440)

Cutting parameters
 $v_c = 220$ m/min
 $a_e = 2$ mm
 $a_p = 4$ mm
Cooling: Emulsion

Source
Oerlikon Balzers Cutting Laboratory

BALIQ™ INSERT ALTINOS for finish machining stainless steel

Rel. tool life (%)



Tool
Carbide insert

Workpiece
Steel 1.4571 (AISI 316Ti, SUS316Ti)

Cutting parameters
 $v_c = 50$ m/min
 $f = 0.03$ mm/rev
 $a_p = 0.2$ mm
Dry cutting

Source
Oerlikon Balzers Cutting Laboratory