

BALINIT LATUMA Versatility wins

First-class performance in milling, drilling and turning



BALINIT LATUMA Make your machining operations a model for success

Tool manufacturers, mechanical engineering, the aircraft industry and reconditioners can look forward to even more versatility and performance. With BALINIT® LATUMA, developed on the basis of the BALINIT® coatings FUTURA NANO and X.CEED, it offers you decisive advantages. Not only is the machining and use of a wide variety of challenging materials even more productive now, the process reliability under difficult working conditions is also increased at the same time. Employ this coating solution for indexable inserts and shank-type tools – take your metal processing business to new levels of success with BALINIT[®] LATUMA. Oerlikon Balzers, a global technology leader in hard coatings, helps you on the way.

Top coating properties lead to top results

OPTIMIZED PERFORMANCE					
The latest in source technology	>	Optimized layer structure and layer surface			
High aluminium content	>	Superior oxidation resistance and hot hardness			
Outstanding chemical stability	>	Optimal crater wear resistance			
Balancing of residual stress and coating hardness	>	Broad application range			
Optimized thermal shock resistance	>	Ideal for wet and dry machining			
High cutting speeds and feed rates	>	Enhanced productivity			

BALINIT® LATUMA

More productivity, process reliability and efficiency in machining operations

Rely on a tool coating with application versatility

Milling and turning with indexable inserts

Milling in

- Stainless steel, HRSA
- Cast iron
- Steel
- **Turning in**
- Stainless steel for finishing operations

Milling with carbide and HSS end mills

Milling in

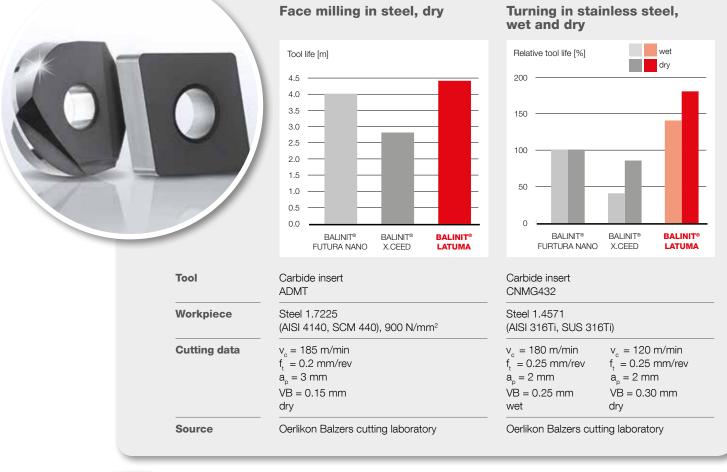
- Stainless steel, HRSA
- Cast iron
- Difficult-to-machine tool steels and high-alloy steels
- High-strength, hardened steels

Drilling with carbide and HSS drills

Drilling in

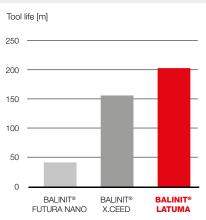
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Convincing results with the use of BALINIT LATUMA coatings on indexable inserts and end mills





Milling in hot-working steel



Carbide end mill, Ø 10 mm

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Wo	rk	nia	60
		pic	

Tool

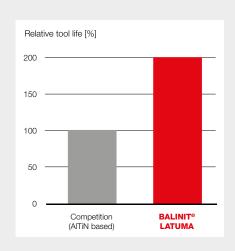
Cutting data

Steel 1.2344 (AISI H13, SKD61), 45 HRC $v_{c} = 180 \text{ m/min}$

f, = 0.1 mm/rev $a_{p} = 10 \text{ mm}$ a = 0.5 mm VB = 0.10 mmEmulsion

Oerlikon Balzers cutting laboratory

Drilling in steel



Carbide drill, Ø 6,0 mm

Tool manufacturer

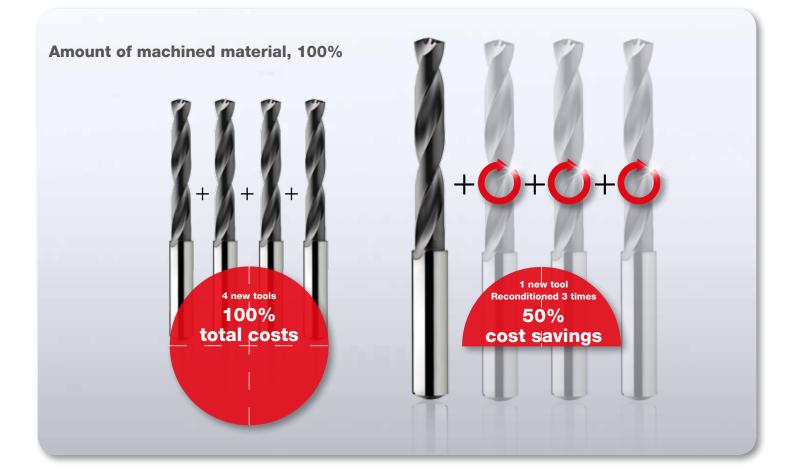
Steel 1.0503 (AISI 1045, S45C) v_ = 80 m/min f, = 0.25 mm/rev $\dot{L}_{D} = 4xD$ VB = 0.15 mm Emulsion

Source

Reduce your tool costs with reconditioning

BALINIT[®] LATUMA also means: No performance losses after reconditioning. Even after multiple recoating operations, you still benefit from the same high performance as after initial

coating – and you save considerably on costs. We would be pleased to provide you with information on our reconditioning services.



Benefit from the BALINIT LATUMA high-performance coating Contact us now!

Headquarters

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