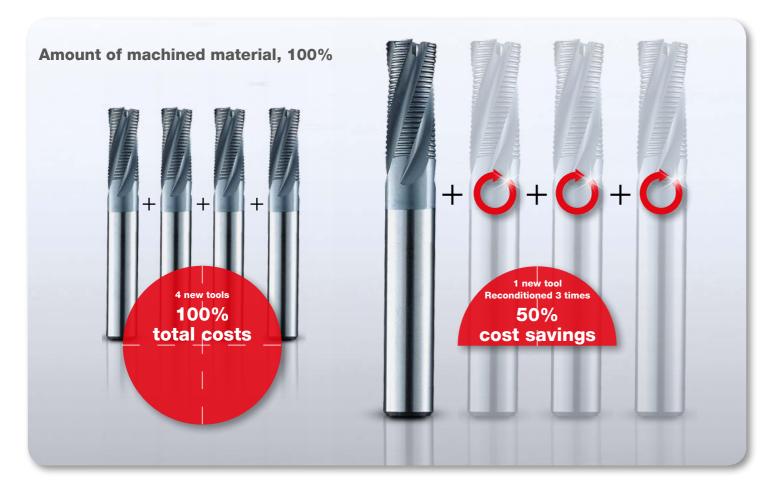
Reduce your tool costs with reconditioning

BALINIT® ALCRONA PRO 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 ALCRONA PRO high-performance coating Contact us now!

Headquarters Oerlikon Balzers Coating AG Balzers Technology & Service Centre Iramali 18 9496 Balzers

Liechtenstein T +423 388 7500

F +423 388 5419

E info.balzers@oerlikon.com

Our worldwide coating centre network addresses are listed at:





BALINIT ALCRONA PRO Uniquely adaptable

Universal machining at the highest level







BALINIT ALCRONA PRO Optimal machining, multiple benefits

You are undoubtedly familiar with this challenge faced in manufacturing engineering: Your tools are already subjected to heavy mechanical and thermal loading, yet there is a drive to continuously increase productivity. So being able to rely on a coating that has been adapted for changing manufacturing conditions and masters new challenges is really important: BALINIT® ALCRONA PRO

from Oerlikon Balzers, a worldwide technological leader in the field of hard coatings. Benefit from the improved properties of this coating and a multitude of possible applications coupled with exceptional reliability – even after reconditioning. Get the BALINIT® ALCRONA PRO competitive edge with its many benefits.

Coating properties that are top notch – as are your advantages

OPTIMIZED PERFORMANCE Significantly strengthened performance profile Optimized process parameters and modified layer structure **Broad application range** Very high wear resistance and excellent Vastly improved tool lifetimes compared to hot hardness conventional all-round coatings Top results in both wet and dry machining Very good thermal shock stability and at the highest of cutting speeds Usable at significantly higher cutting speeds Increased machine utilization and productivity AlCrN-based material composition **Groundbreaking all-round coating**

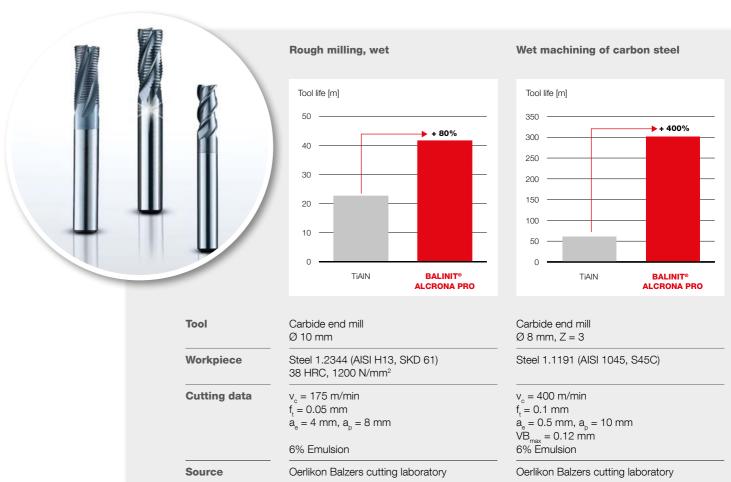
BALINIT® ALCRONA PRO

More productivity and manufacturing reliability with a great width of application possibilities

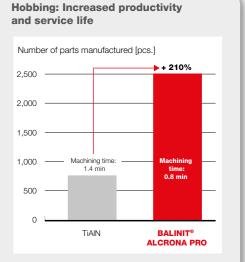
Rely on a tool coating with application versatility

Carbide and HSS end mills, modular milling cutters	Drills	Carbide and HSS hobs, stick blades, shaper cutters
Roughing and finishing of	Drilling in	Gear cutting in
- Steel, up to 52 HRC	- Steel, up to 52 HRC	- Steel, up to 52 HRC
- Cast iron	- Cast iron	- Wet, MMS and dry machining
- Wet, MMS and dry machining	- Wet, MMS and dry machining	

BALINIT ALCRONA PRO The ideal solution for your end mills and hobs







	AITiN	BALINIT® ALCRONA PRO
Tool	Hob, PM HSS	
Workpiece	Steel 1.7131 (~ AISI 5120,	~SMnC 420(H))
	ν _c = 200 m/min VB ~ 0.3 mm	
	dry	
Source	Automobile manufacturer	

Steel 1.6526 (~AIS	I 8620, ~ SNCM 220
TIAN:	ALCRONA PRO:
f, = 3 mm	f, = 4 mm
v _c = 110 m/min	$\dot{v}_{0} = 146 \text{ m/min}$
with oil	with oil

Hob DM HOO