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 BALINIT ALCRONA PRO coatings. The unique coating technology, high performance, and service support ensure that, even after multiple recoatings, your inserts suffer no loss of performance. We would be pleased to provide you with information on our reconditioning services.

We strongly encourage you to consider BALINIT ALCRONA PRO for your high-performance machining applications. The unique coating technology, high performance, and service support ensure that, even after multiple recoatings, your inserts suffer no loss of performance. 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!

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Cutting Tools
Optimal machining, multiple benefits

You are undoubtedly familiar with the challenges 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.

One important requirement for this coating is the ability to prevent non-metallic inclusions from entering the cut, which is crucial for the quality of coatings, especially in hard coatings. BALINIT® ALCRONA PRO provides the required properties to prevent this from happening and thus delivers an excellent layer quality.

Coating properties that are top notch – as are your advantages

Top-notch coating performance

Optimized process parameters and modified layer structure

Optimized parameter setting with improved reliability, robustness, and wear resistance.

High wear resistance and excellent hot hardness

Superior wear resistance and excellent toughness, ensuring outstanding performance in challenging conditions.

High thermal shock stability

Top results in both wet and dry machining and at the highest of cutting speeds.

Usable at significantly higher cutting speeds

Increased machine utilization and productivity

Advanced material composition

Groundbreaking all-round coating

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

Rely on a tool coating with application versatility

Through the use of coating, the application range is expanded.

Optimized performance

| Tool | Carbide end mill H50C 1/4"
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Workpiece</td>
<td>Steel 1.2344 (X5CrNi18-10) 150 HRC, 1200 N/mm²</td>
</tr>
<tr>
<td>Cutting data</td>
<td>Vc = 175 m/min, f = 0.03 mm/tooth, ap = 4 mm</td>
</tr>
</tbody>
</table>

Hobbing: Increased service life

- Reduced tool wear
- Improved productivity

Hob, H135

| Tool | Carbide end mill H50C 1/4"
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Workpiece</td>
<td>Steel 1.2344 (X5CrNi18-10) 150 HRC, 1200 N/mm²</td>
</tr>
<tr>
<td>Cutting data</td>
<td>Vc = 400 m/min, f = 0.1 mm/tooth, ap = 10 mm</td>
</tr>
</tbody>
</table>

Hob, H135

| Tool | Carbide end mill H50C 1/4"
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Workpiece</td>
<td>Steel 1.2344 (X5CrNi18-10) 150 HRC, 1200 N/mm²</td>
</tr>
<tr>
<td>Cutting data</td>
<td>Vc = 110 m/min, Vf = 0.5 m/min</td>
</tr>
</tbody>
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Hob, H135