Get ahead of the competition
More productivity with BALINIT ALDURA

The high-performance capabilities of BALINIT® ALDURA are proven. This becomes clear in a comparison of the benchmark tools employing the same geometry from Japanese and European sources. In each case, the test was performed using the coating with which the tool was offered on the market against the tool coated with BALINIT® ALDURA.

Results: With BALINIT® ALDURA, it was possible to nearly double the tool life in almost every case. That means a great boost in your productivity as well.

BALINIT ALDURA Extremely durable

High-performance and reliable machining of the hardest materials

Comparison with commercially available high-performance coatings

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<tr>
<th>Tool manufacturer</th>
<th>Tool coating</th>
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<td>Tool manufacturer 1</td>
<td>Tool coating</td>
<td>Tool manufacturer 2</td>
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<td>Tool manufacturer 3</td>
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Benefit from the BALINIT ALDURA high-performance coating

Contact us now!

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BALINIT ALDURA
Get the hard facts for high-performance milling
高效铣削中的优异表现

One challenge in the area of tool and mould making is the machining of hardened steels of up to 85 HRC. The milling cutters are subjected to enormous loads because the chips are compressed and broken at extreme levels of heat and force. The conditions are becoming more demanding all the time, especially at the cutting edge itself.

The BALINIT ALDURA high-performance coating was developed explicitly for roughing and finishing hardened steels. It is especially attractive due to its dual-layer structure that is perfectly adapted for this demanding machining process and makes your fabrication even more productive. This is just one more reason to rely on Cerakron Balzers, a world-wide technological leader in the field of hard coatings.

Ideal coating properties provide you with advantages
理想的涂层性能为您带来优势

**Optimized Performance 优化性能**
- Dual layer coating structure optimized for hard machining 双层结构的优化加工
- Base layer with first-class coating adhesion (Damping function) 基层有良好的涂层粘附性（阻尼功能）
- Functional layer with excellent oxidation resistance, high hardness and thermal insulation properties 功能层具有优异的氧化稳定性、高硬度和热绝缘性能

**BALINIT ALDURA More productivity and manufacturing reliability when machining hardest materials** 在加工硬度材料过程中，生产力和加工可靠性均得到提高

**Application recommendations 推荐应用**
- Complete machining of hardened and tempered steels (45 to 65 HRC) 高硬度回火钢整体加工
- Carbide milling cutters and modular milling cutters 碳化物铣刀
- Carbide indexable inserts 碳化物可转位刀片
- Carbide drills 碳化物钻头

Faster and more economical machining through increased process reliability
通过提高工艺稳定性，更快、更经济的加工

**Finishing in HRC 62 steel**

- Cutting speed: 60 m/min
- Feed: 0.1 mm/tooth
- Depth of cut: 0.2 mm
- Tool life: 2500 mm

**Milling in HRC 52 steel**

- Cutting speed: 80 m/min
- Feed: 0.1 mm/tooth
- Depth of cut: 0.2 mm
- Tool life: 1500 mm