Productivity with a big plus
+85% for drilling in steel
钢上钻削，生产力大幅提高85%

Higher productivity with BALINIT® PERTURA
A general rule says that the costs for mechanical machining operations can only be reduced significantly through increased productivity of the tools employed. A simple calculation demonstrates this: An increase in tool lifetime of 50% results in cost savings amounting to only 1% per component. The savings are about the same when tool costs are decreased by 30%. On the other hand, increasing the feed rate and cutting speed by 20% can reduce manufacturing costs by at least 15%. BALINIT® PERTURA allows significantly higher cutting speeds and feed rates than do conventional PVD coatings – especially under difficult application conditions.

Cost savings of 30% on a large scale, respectively. At full power, BALINIT PERTURA全力建筑

High-performance drilling 高性能钻削

益图从BALINIT PERTURA高性能涂层

Contact us now! 即刻与我们联系!
BALINIT PERUTA
You benefit from more performance and flexibility
您将获益于更高性能、更灵活的涂层

BALINIT® PERUTA is a coating for all high-performance carbide drills. It is the result of the refinement process involving our BALINIT® FUTURA and HELICA coatings. Regardless of whether for machining operations in steel or cast iron, for new or reconditioning: With its unique nano-layer structure, BALINIT® PERUTA enhances the stability and process reliability of your tools even under difficult machining conditions. This means reduced tool changing and increased machine service life. Moreover, machining times are shortened, which in turn allows for maximum machine capacity utilization as well as savings in production costs. There are numerous advantages offered only by Ceratizit Béziers, a global technology leader in hard coatings.

Balinit® peruta适用于所有高性能硬质合金钻头。它是由我们的balinit® futura和helica涂层改进过程的结果。无论是在钢或铸铁中进行的切削操作，对于新钻或修复钻头：由于其独特的纳米层结构，balinit® peruta增强了工具的稳定性和加工过程的可靠性，甚至在恶劣的切削条件下也是如此。这意味着减少了工具更换次数，提高了机床的使用寿命。此外，切削时间缩短，从而提高了机床的利用率和生产成本节省。Ceratizit Béziers以其全球技术领导地位在硬质涂层方面提供了众多优点。

Optimized performance
优化性能

- Nanolayer structure and specific layer composition
  纳米层结构和层的具体组成
- Consistent prevention of crack growth
  一致防止裂纹扩展
- Versatile application in high-end drilling
  高端钻孔应用
- High tool lifetimes
  高工具寿命
- Trouble-free chip transport
  无问题的切屑运输
- Very high tool stability, especially of the cutting edges
  非常高的工具稳定性，尤其是切削刃

- Hardness and fracture toughness
  硬度和断裂韧性
- Applications at moderate and high cutting speeds
  中速和高速切削应用
- Tool material
  工具材料
- Reduction of cutting forces
  切削力减少
- Extremely high service life, even with deep-hole and dry drilling
  极高的使用寿命，即使是深孔干式钻孔

- Enormous abrasion-resistance and high hot hardness
  极大的抗磨损性和高温硬度
- Applications of moderate and high cutting speeds
  中速和高速切削应用
- Great tool hardness
  大的工具硬度
- Extremely stable chip transport
  极稳定的切屑运输
- Extremely high service life, even with deep-hole and dry drilling
  极高使用寿命，即使是深孔干式钻孔

Optimised performance
优化性能

- Nanolayer structure and specific layer composition
  纳米层结构和层的具体组成
- Consistent prevention of crack growth
  一致防止裂纹扩展
- Versatile application in high-end drilling
  高端钻孔应用
- High tool lifetimes
  高工具寿命
- Trouble-free chip transport
  无问题的切屑运输
- Very high tool stability, especially of the cutting edges
  非常高的工具稳定性，尤其是切削刃

- Hardness and fracture toughness
  硬度和断裂韧性
- Applications at moderate and high cutting speeds
  中速和高速切削应用
- Tool material
  工具材料
- Reduction of cutting forces
  切削力减少
- Extremely high service life, even with deep-hole and dry drilling
  极高的使用寿命，即使是深孔干式钻孔

- Enormous abrasion-resistance and high hot hardness
  极大的抗磨损性和高温硬度
- Applications of moderate and high cutting speeds
  中速和高速切削应用
- Great tool hardness
  大的工具硬度
- Extremely stable chip transport
  极稳定的切屑运输
- Extremely high service life, even with deep-hole and dry drilling
  极高使用寿命，即使是深孔干式钻孔

Rely on a broad application range – even under difficult conditions
即使在难加工条件下，也拥有广阔的应用范围

Ideal for a diverse variety of carbide drills
适合各种类型的硬质合金钻头

- Deep-hole drills - Deep-drills
  - C70
  - GGG80
  - Materials with high tensile strength
  - High-temperature tools
  - Stainless steels
  - Tool material

Ideal for challenging materials
适合挑战性材料

- As well as all standard drills
  - C70
  - GGG80
  - Materials with high tensile strength
  - High-temperature tools
  - Stainless steels
  - Tool material

Ideal for all cooling variants
适合各种冷却方式

- Internal cooling
  - Internal cooling
  - External cooling
  - MQL
  - Dry machining
  - Tool material

Obtain top performance statistics in your machining 在您机械加工过程中，获得顶级性能数据

Every coating property is a factor for success
每一项涂层性能都是成功的关键

More productivity, process reliability and efficiency in carbide drilling
在硬质合金钻削中，生产力、工艺可靠性和效率均得到提高

Optimized performance
优化性能

- Nanolayer structure and specific layer composition
  纳米层结构和层的具体组成
- Consistent prevention of crack growth
  一致防止裂纹扩展
- Versatile application in high-end drilling
  高端钻孔应用
- High tool lifetimes
  高工具寿命
- Trouble-free chip transport
  无问题的切屑运输
- Very high tool stability, especially of the cutting edges
  非常高的工具稳定性，尤其是切削刃

- Hardness and fracture toughness
  硬度和断裂韧性
- Applications at moderate and high cutting speeds
  中速和高速切削应用
- Tool material
  工具材料
- Reduction of cutting forces
  切削力减少
- Extremely high service life, even with deep-hole and dry drilling
  极高的使用寿命，即使是深孔干式钻孔

- Enormous abrasion-resistance and high hot hardness
  极大的抗磨损性和高温硬度
- Applications of moderate and high cutting speeds
  中速和高速切削应用
- Great tool hardness
  大的工具硬度
- Extremely stable chip transport
  极稳定的切屑运输
- Extremely high service life, even with deep-hole and dry drilling
  极高使用寿命，即使是深孔干式钻孔

Ideal for a diverse variety of carbide drills
适合各种类型的硬质合金钻头

- Deep-hole drills - Deep-drills
  - C70
  - GGG80
  - Materials with high tensile strength
  - High-temperature tools
  - Stainless steels
  - Tool material

Ideal for challenging materials
适合挑战性材料

- As well as all standard drills
  - C70
  - GGG80
  - Materials with high tensile strength
  - High-temperature tools
  - Stainless steels
  - Tool material

Ideal for all cooling variants
适合各种冷却方式

- Internal cooling
  - Internal cooling
  - External cooling
  - MQL
  - Dry machining
  - Tool material