

ph HORN ph



NEW

PCD成型钻具

有色金属的成型钻具

PCD FORM BORING TOOLS

Form boring tools for non-ferrous metals



不同之处： 更多可能

THE DIFFERENCE: MORE POSSIBILITIES

- **高精度和表面光洁度**
High precision and surface finish
- **通过完美匹配的设计提高了效率**
Increased efficiency due to perfectly matched design
- **由于高性能的PCD, 使用寿命长**
Increased tool life due to high-performance PCD

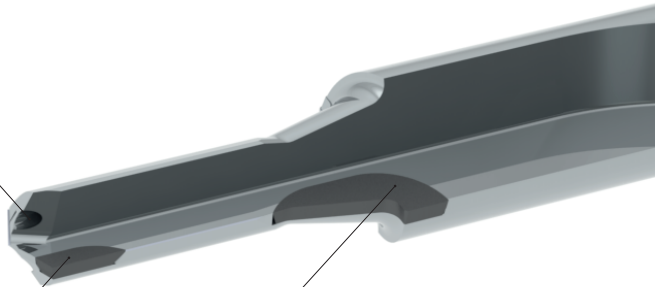
刀具: PCD阶梯钻头
应用: 成型镗
工件材质: ALMgSi7
 v_c (m/min): 450
 f (mm/U): 0,25

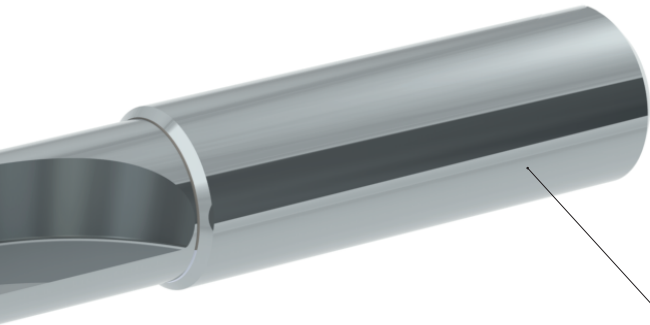
Tool: PCD Step Drill
Machining: Form boring
Material: ALMgSi7
 v_c (m/min): 450
 f (mm/rev): 0.25

双层冷却剂孔用于
最佳排屑效果
Double coolant bore for
optimal chip removal

阶段2 缩小形状
Step 2 shape reduction

阶段1 钻孔
Step 1 for through hole





柄部 DIN6535 HA
Shank DIN6532 HA

用于有色金属的PCD阶梯钻头

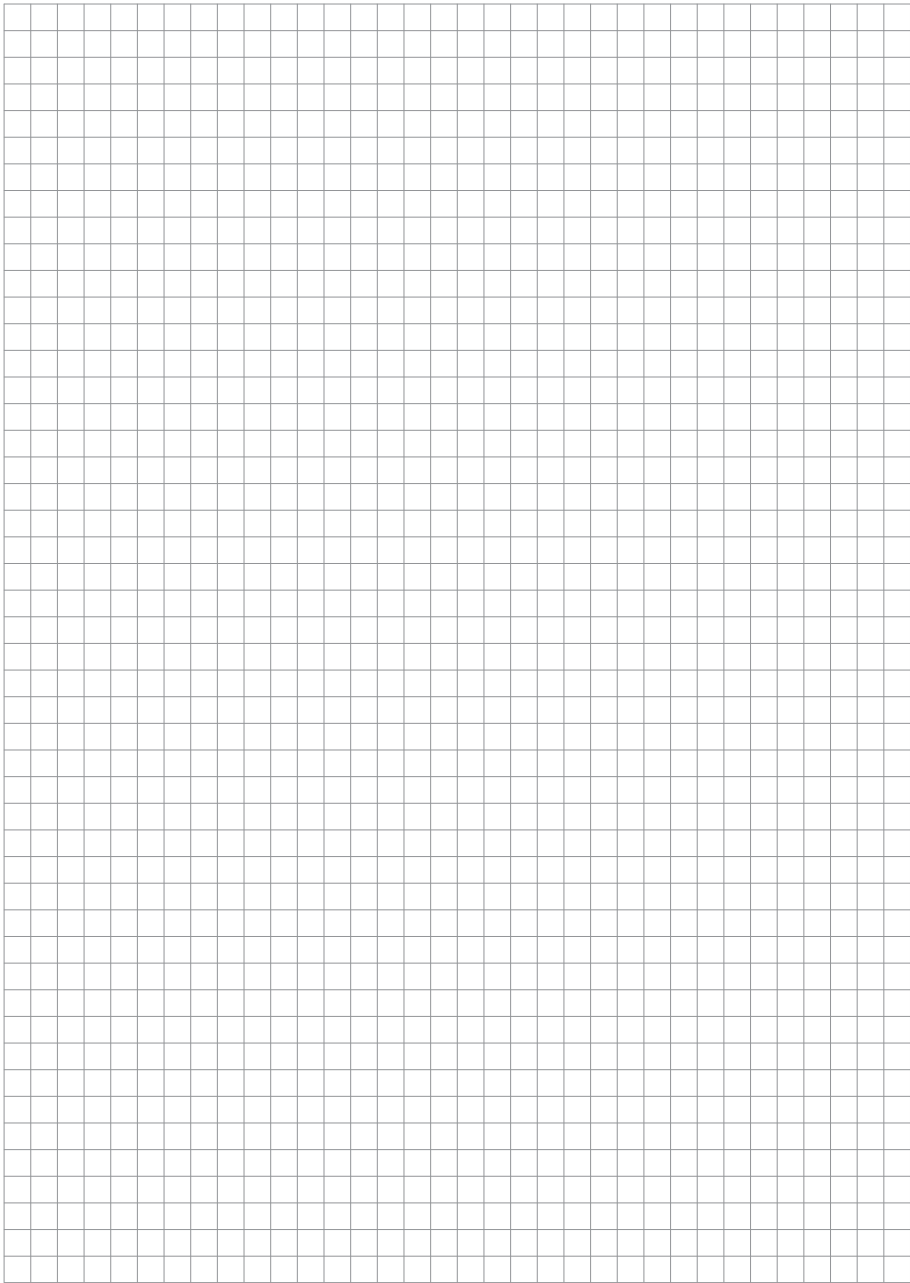
HORN正在扩大其带有聚晶金刚石 (PCD) 切削刃的工具组合。继PCD车刀之后, HORN现在也为用户提供PCD头的阶梯钻。该工具系统可实现较高的钻孔精度, 由于切削刃锋利, 可实现较高的表面质量。该应用针对的是有色金属的钻孔、镗孔和沉孔。例如在铝制轮辋的生产中。这些工具在加工过程中允许高的切削参数。这使得在系列生产中降低每个部件的成本和缩短工艺时间成为可能, 缩短加工时间。

HORN只提供作为非标刀具的PCD阶梯钻头。PCD钻可以从4毫米的刀具直径开始。刀杆夹持部分可提供所有常见的DIN柄部尺寸, 直径从6毫米到25毫米的整体硬质合金版本。硬质合金刀柄在加工过程中提供了良好的减震效果。所有版本都配备了内部冷却剂供应。从32毫米的钻头直径开始, 整体式刀具有钢制版本可供选择。

PCD step drill for non-ferrous metals

HORN is expanding its tool portfolio with cutting edges tipped with polycrystalline diamond (PCD). Following on from PCD turning tool programme, HORN now also offers users PCD-tipped step drills. The tool system allows greater drilling precision and better hole surface quality thanks to the sharp cutting edges. It is designed for creating holes and countersinks as well as pre-drilling in non-ferrous metals, such as in the production of aluminium wheels. The tools allow high cutting parameters during machining, which makes it possible to reduce the cost per component in series production, as well as the process time.

HORN only offers the PCD-tipped step drill as a special tool. The PCD tip is available on tools with a diameter of 4 mm (0.157") and above. The bodies are available in all common DIN shank dimensions from 6 mm (0.236") to 25 mm (0.984") diameter as a carbide monoblock version. The carbide shank provides good vibration damping during machining. All variants are fitted with an internal coolant supply. The monoblock tool body is available as a steel variant from a diameter of 32 mm (1.260"). Following on from PCD turning tool programme, HORN now also offers users PCD-tipped step drills.





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