

High performance solid tungsten carbide hinge boring bit

for better quality holes and reduced down time

Reliability on hinge boring machine saves expensive waste plus the time needed to remake lost components. Conventional hinge boring bits have a short run time and, for larger hole depths, often need an intermediate clearing stroke. The increased machine costs from down time and longer cycle time reduce productivity.

Leitz, through a revolutionary new production technology, can produce hinge boring bit head blanks in solid tungsten carbide. This eliminates the design compromises of the past arising from production constraints and has allowed a complete re-think of the design of the hinge boring bit. The result – a hinge boring bit program targeted at quality and productivity.

By eliminating the need for brazed tungsten tips, high performance tungsten carbide can be used to increase the tool run time and to reduce the machine down time. The basic form is reminiscent of a propeller; its function is similar in that it clears the chips considerably better than a classical hinge boring bit. Additionally, the cutting geometry reduces the feed forces benefiting productivity particularly with pneumatic drilling aggregates. The cutting edges have better accessibility simplifying resharpener. The higher grade tungsten carbide improves the rigidity and stability of the hinge boring bit, again improving both the hole quality and hole edge quality.

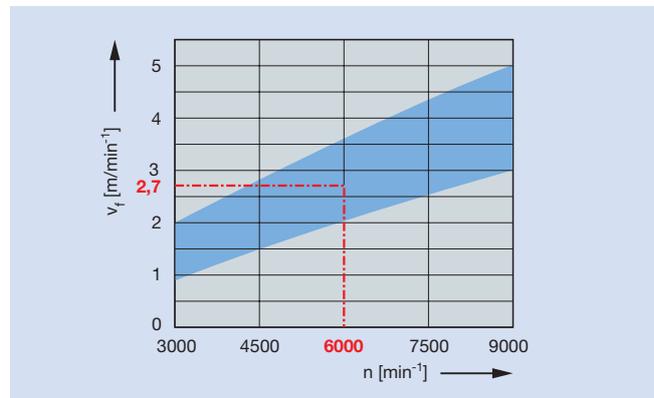


Without compromise

for special requirements

The cutting geometry and spur are designed to optimise the quality and productivity in all the usual materials.

Feed speeds of up to 3.5 m/min at 6,000 min⁻¹ and 5 m/min at 9,000 min⁻¹ are possible; holes can be drilled to within 3 mm of the panel thickness. The hinge boring bits can also be easily modified to suit specific profile requirements.



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