



***HORN CUTTING TOOLS LTD***  
***PRESS INFORMATION***

**HORN SUPERMINI® CHIP-BREAKER BEATS**  
**THE 1000 INSERT BARRIER**

Latest addition to the Horn Supermini® range, now available from Horn Cutting Tools Ltd., Ringwood, is a Type 105 insert that offers significantly higher productivity when machining in bore diameters of 4 mm or greater. The tooling incorporates newly developed 'HV' chipbreaker geometry which allows much higher feed rates than hitherto. This development has been enabled by Horn's grinding process expertise and continuous investment in the most capable insert grinding technology: the chipbreaker form is ground into the insert close to the cutting edge during manufacture.

More than 1000 standard insert configurations formats are now available in the highly successful Horn Supermini® format. Since its introduction in the early 1990s the system has established itself as the premier boring, grooving, threading and on-machine broaching system for machining in bores of 8 mm diameter or less. In fact the minimum entry bore diameter of Supermini® is now 0.2 mm.

Incorporating chipbreakers on Supermini® inserts offers a significant hike in cutting performance. Chip control is a significant limiting factor when machining in small diameter bores. The HV chipbreaker form is designed to minimize stress at the cutting edge while promoting effective swarf evacuation. Combined with Supermini's existing through-tool coolant capability it offers the opportunity to double feed rates to as much as 0.1 mm without risk of blockage and tool failure.

Versions of the insert are available for machining in bores up to 30 mm deep and the standard coating is Horn Type TH35. The standard Supermini<sup>®</sup> ovoid location/clamping surface of the insert makes it fully compatible with the wide range of Supermini<sup>®</sup> B105 pattern tool holders, ensuring maximum performance in a very wide range of applications.

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***Further information is available from:***

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