

GUHRING

Guhring – The comprehensive supplier

Guhring will be showcasing a comprehensive range of precision cutting tools made in Germany on its stand at Austech.

One of the centrepieces of Guhring's display will be its SpyroTec range of 90-degree spiral countersinks with convex cutting edges. SpyroTec's newly developed cutting geometry significantly reduces the axial and radial forces generated during countersinking operations. Due to the differing convex radii of the cutting edges, with variable helical pitch, the process is extremely stable with low levels of vibration, ensuring round, precise and chatter-free countersinking. SpyroTec's specially designed TiAlN coating ensures a higher wear resistance and high-temperature hardness, guaranteeing longer tool life of nearly all materials and applications.

The SpyroTec countersink by Guhring is available from stock in all major designs. The complete range includes a version with a straight shank, a version with a three-surface shank for feeding into three-jaw chucks, and an extra-long version for bridging interfering contours. Guhring also offers sets containing the most popular sizes for the versions with the straight shank and three-surface shank.

In terms of processing safety and threading quality, thread milling is still the most common procedure for cutting threads. Guhring's newly designed SC Line of thread milling cutters now machines even faster, consisting of micro thread milling and thread milling cutters with 45-degree chamfers, each with up to eight cutting edges.

Chip removal and chip formation are crucial for machining non-ferrous metals. Guhring's RT 100 Al achieves optimum chip formation on the cutting edge across the full range of materials – from soft, elastic non-ferrous alloys, to brittle cast aluminium or brass alloys. Chips are reliably removed. The RT 100 Al is characterised by its open point geometry, with high surface finish qualities in the web thinning, front face and clearance rake areas. The micro-treated cutting edges and cutting corners complete the tip geometry and ensure a perfect cutting performance. Low processing temperatures prevent the formation of built-up edges when machining non-ferrous metals.

The Guhring team will also be focusing on trochoidal milling, a milling strategy currently making a comeback. Trochoidal milling involves the tool moving in an elliptical motion, during which the circular tracks overlap each other. The milling procedure is not completely new, but it is only on the basis of the performance of today's machining centres and geometrical adjustments, as well as the tools' increased resistance to wear, that GTC (Guhring Trochoidal Cutting) is emerging as a further development in machining and is often used when very high material removal rates are required.

Guhring' stand at Austech will emphasise its status as a complete supplier. Guhring has specialised in rotating cutting tools for many years, having been a drill pioneer since 1898 and gradually expanding to include milling, reaming and threading tools. Since launching its grooving tools in 2016, the tool manufacturer has consolidated its reputation as a complete supplier more than ever before.

Guhring Pty Ltd

www.guhring.com.au

Stand No: 854