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Ref - Series 43 non-ferrous roughing

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SGS Launches New Series 43 Non-Ferrous Roughing Tool

SGS Tool Company, a leader in round solid carbide cutting tool technology, has added a new series of Roughing End Mills to its S-Carb product line in support of the company's on-going commitment to provide high performance cutting solutions. The new Series 43 Chip Breaker delivers load reduction and offers superior chip management during aggressive aluminium and non-ferrous machining.

The new tool range features a number of enhancements such as an engineered flute design with a flute shape that facilitates the rapid movement of the large volume of chips created during aggressive machining. While symmetrical end gashing provides superior balance in a high speed environment, improving surface finishes when compared to traditional 3-flute designs and offering unsurpassed plunging capabilities.

Specialised chip breaker geometry disrupts the chip flow along the cutting edge resulting in smaller and more controlled chips. This prevents built-up edge and reduces power consumption, while also avoiding the tendency for stringy swarf to form a 'nest' around the tool.

Managing Director, Alan Pearce, says: "Most aluminium aerospace components require 80 per cent, or more, of the original raw material to be removed. So, the roughing process has a significant impact on the overall cycle time, and therefore efficiency, achieved. The new Series 43 has been designed to minimise the roughing time required, with features that are specifically targeted to this goal. We know that machined aluminium occupies 10 times the volume of the

original raw material, so evacuation of the chips via the engineered flutes and the management of the length of the chips with the breaker geometry are crucial.”

The new roughing tools are ideal for heavy material removal applications where cycle time reductions are critical. The S-Carb Series 43 is available in imperial and metric diameters, standard lengths in both an uncoated and an optional coated version. Ti-NAMITE-B is the exclusive high performance coating for SGS aluminium solutions, providing superior wear resistance and a low coefficient of friction for extended tool life.

Ends

Images:



(Series 43.jpg)

Note to Editors

SGS Carbide Tool is a premier manufacturer of high performance, precision solid carbide rotary cutting tools, with a metric and an imperial inventory of over 16,000 items, plus an industry leading bespoke special tooling service to meet customer specific requirements. Headquartered in Ohio, USA, SGS has a 25,000 ft² European headquarters and manufacturing facility in Wokingham, UK.

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