

Technology

Video: Boost Your Metal Removal In Heavy Duty Face Milling Operations

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Take full advantage of your machine tool's milling power for increased productivity with Seco's new Double Quattromill™ 22 face mill cutter for roughing and semi-finishing. Achieve large depth-of-cut capability and do so cost-effectively with eight multi-edge insert cutting edges.

Push even the most capable machine tools to their power consumption limitations, taking depths-of-cut up to 9 mm (0.35") with the 45° lead angle version of the Double Quattromill™ 22 and as deep as 11 mm (0.43") with the 68° cutter version. Avoid the cutting force shortcomings of standard tangential-type face mills thanks to the specially developed and extremely free-cutting geometries of the Double Quattromill™ 22's double-sided inserts.

Unlike other doublesided inserts, the Double Quattromill™ 22 inserts actually lower cutting forces/machine power consumption and thus ensure workpiece stability. The inserts feature high-axial rake angles that not only make them free cutting but also give them longer tool life and more versatility for a wider range of part materials including steel and cast iron as well as 15-5 stainless steel and superalloy materials such as titanium and Inconel™.

The 45° Double Quattromill™ 22 lead angle provides a combination of lower cutting forces, less power consumption, higher feed rates and exceptional chip thinning. While on the other hand, the 68° is best when having to mill close to a wall or part fixture.

Double Quattromill™ 22 inserts also feature wiper flats, and the 45° lead angle types come in three geometries. These include a highly sharp geometry for stainless steels, titaniums and other sticky materials; a universal type for steels to cast irons and superalloys; and one for steels, in particular tool steels from P6 to P11, and cast iron.

Enhanced chip control and evacuation as well as longer maintained tool surface appearance and durability result from new Seco surface texture technology applied to Double Quattromill™ 22 cutter body flute surfaces. For additional cost effectiveness, Double Quattromill™ 22 cutter bodies come in either fixed pocket or cassette versions for larger diameters from 200mm up to 315 mm (7.87" to 12.40").

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