

Release date: 1 October 2019

Reference: PR-19-679-Ceratizit UK & Ireland -MaxiMill 271

## Productivity and quality boost with CERATIZIT's MaxiMill 271 milling system

**The ability to achieve cost-effective, secure, milling, with added process flexibility is now a reality thanks to the development of CERATIZIT's MaxiMill 271 indexable insert milling system. The extremely soft-cutting MaxiMill 271 tool system can be used for a wide variety of applications and offers a range of effective options to produce high quality surface finish. Further advantages are that the design of inserts and cutter bodies also enhance tool life and aid effective removal of swarf from the hot zone.**

MaxiMill 271 is designed, therefore best suited, to applications where face, slot and chamfer milling are required. To ensure maximum performance the cutters can be specified with either a 45° approach angle or as a high-speed tool with a 17° approach angle combined with the options of fine and coarse pitched cutter bodies to provide maximum application flexibility. Further extending the MaxiMill series to meet market expectation, CERATIZIT has added a 12 mm insert system to the range. The advantage of these smaller inserts is that a greater number can be used, which in turn results in longer tool life and higher chip removal rates.

A key feature of the MaxiMill inserts is that they have eight usable cutting edges, making the system extremely cost-effective. In addition, the cutting edge design delivers a sturdy and robust interface between the insert and material being cut, consequently achieving high cutting speeds and the highest levels of process security. The inserts form part of the story with the cutter bodies also playing an important role. As such, extremely tight tolerances are demanded to ensure the MaxiMill 271 milling cutters produce the best face and concentricity properties. With the irregular pitch of the insert pockets the cutters also achieve extremely quiet machining, which when combined with the precision ground Masterfinish geometry of the indexable inserts will deliver outstanding surface finishes. The availability of inserts, with a variety of geometries, covering ISO categories P, M, K and S also means that MaxiMill 271 can be applied to a wide variety of materials and applications.

Putting some numbers to the claims for MaxiMill 271 when run against a comparable cutter from a competitor the results proved conclusive. Machining unalloyed S355 structural steel, a 125 mm diameter MaxiMill 271 face mill achieved a 50% higher feed per tooth along with an increase of 200% in cutting depth. The volume of swarf removed was also dramatically increased by a staggering 430 per cent with MaxiMill 271 achieving a volume of 523 cm<sup>3</sup>/min as opposed to 97 cm<sup>3</sup>/min from the competitor tool. The overall result was a 50 per cent increase in components produced.

Attachment:



Extending the system size to 12 mm enables more indexable inserts to be attached to the tool holders. This has markedly increased tool lives and chip removal rates.

### compliments

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### **CERATIZIT – With passion and a pioneering spirit for carbides**

For more than 95 years, CERATIZIT has been a pioneer in the field of ambitious hard material solutions for machining and protection against wear. The private company, with registered offices in Mamer, Luxembourg, develops and produces highly specialised cutting tools, indexable inserts, rods made from hard materials and wearing parts. We are the global market leader in various application segments for wearing parts and are successfully developing new carbide, cermet and ceramic grades, for example in woodworking and stone working.

With more than 9,000 employees at 34 production facilities worldwide and a sales network with over 70 branches, the Group is a global player in the carbide sector. Our international network also includes subsidiaries KOMET, WNT, Becker Diamantwerkzeuge and Stadler Metalle, as well as the CB-CERATIZIT joint venture. As a technology leader, we continuously invest in research and development and hold over 1,000 patents. Our innovative carbide solutions are used in the mechanical engineering and tool making sectors, in the automotive industry, the aviation and aerospace industry, and in the medical industry.

We are represented on the market by our seven flagship brands, Hard Material Solutions by CERATIZIT, Toolmaker Solutions by CERATIZIT, Tool Solutions by CERATIZIT, Cutting Solutions by CERATIZIT, KOMET, WNT and KLENK.

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