

Press Information

Kyocera extends portfolio with new tangential milling cutters

New tangential shoulder face milling cutter for shouldering, slotting, and ramping applications as well as new face mill type for heavy milling

Kyoto/London, February 18th, 2020. Kyocera has added the MEV tangential cutter series to its wide milling products portfolio, which was first presented at the EMO 2019. Moreover, by adding the new MFLN, Kyocera provides a high-efficiency tool for heavy milling. The Japanese company is thus meeting the high demand for cutting tools that offer extreme resistance and stable performance and a variety of cutting conditions.

Multi-functional MEV: Tangential shoulder face milling cutter for various machining applications

The 90° cutter MEV offers a high rigidity due to a higher web thickness than conventional cutters. Another advantage is the low cutting force due to axial rake angle of max. 17°. The advanced cutting performance can be noticed by excellent finish bottom and squareness of the tooled workpiece. The increased hardness and wide contact surface additionally improve the tool life. In order to reduce stress on the cutter body, the development work was carried out using state-of-the-art simulation and analysis technology.



MEV with triple-edged insert

Also, the newly developed triangular inserts with three cutting edges contribute to the low cutting force and increased toolholder rigidity.

The PR15-Serie utilizes MEGACOAT NANO coating technology with excellent wear and adhesion resistance. The high performance of the inserts makes machining more stable and less prone to chatter. Thus, they represent high performance, economical, and multi-functional milling solutions, which, among others, find use for shouldering, slotting, and ramping at depths of cut of 6 mm or less.

MFLN: Tangential face mill for heavy milling

Kyocera’s new high efficiency cutter MFLN with a wide contact face of insert are optimal for large depths of cut and high feed rates. The tangentially mounted inserts with a length of 22 mm and two cutting edges on both sides provide an increased rigidity and stableness, low cutting force, and high reliability on heavy milling. As a result, the MFLN reduces the tendency to chatter and prevents sudden insert fracture. Together with Kyocera’s original PVD coating technology MEGACOAT NANO¹ with high hardness (35 Gpa) and excellent oxidation resistance, the MFLN promises a long tool life. It offers three cutter styles including different cutting edge angles in order to cover a wide variety of machining applications: cutting edge angles of 90° (MFLN90), 70° (MFLN70) and 45° (MFLN45).



Three versions of MFLN with different cutting edge angles

¹ Oxidation temperature of PVD coating technology MEGACOAT NANO of 1.150 °C improves wear resistance as well as the chipping resistance.

For more information on Kyocera: www.kyocera.co.uk

About Kyocera

Headquartered in Kyoto, Japan, Kyocera Corporation is one of the world's leading manufacturers of fine ceramic components for the technology industry. The strategically important divisions in the Kyocera Group, which is comprised of 286 subsidiaries (as of March 31, 2019), are information and communications technologies, products which increase quality of life, and environmentally friendly products. The technology group is also one of the most experienced producers of solar energy systems worldwide, with more than 40 years of know-how in the industry.

The company is ranked #655 on Forbes magazine's 2019 "Global 2000" listing of the world's largest publicly traded companies. With a global workforce of over 77,000 employees, Kyocera posted net sales of approximately €12,99 million in fiscal year 2018/2019. The products marketed by the company in Europe include printers, digital copying systems, semiconductor-, fine ceramic-, automotive- and electronic components as well as printing devices and kitchen products. The Kyocera Group has two independent companies in the United Kingdom: Kyocera Fineceramics Ltd. and Kyocera Document Solutions.

The company also takes an active interest in cultural affairs. The Kyoto Prize, a prominent international award, is presented each year by the Inamori Foundation — established by Kyocera founder Dr. Kazuo Inamori — to individuals and groups worldwide who have contributed significantly to the scientific, cultural, and spiritual betterment of humankind (converted at approximately €828,000 per prize category).

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