Press Information

New helical end mill for titanium alloy machining

Kyocera expands the MECH product line to provide more stable performance and longer tool life.

Kyoto/London, March 20th, 2020. The Japanese fine ceramics manufacturer Kyocera presents its latest innovation: MECHT enhances the range of indexable milling cutters. Due to its ideal tool geometry, MECHT is ideally suited for applications in shoulder face milling, plunge cutting, and slot milling as well as ramping. Like the entire MEC series from Kyocera, MECHT features positive and very light-cutting, which achieves perfect 90° shoulders and smooth surfaces.

Unique design offers obvious benefits

Compared to conventional milling cutters in this category, the Kyocera product is characterised by a new combination of insert sizes. The larger bottom inserts are positioned at the first stage of the toolholder to handle larger cutting forces handle higher cutting forces.This stabilizes the titanium alloys machining and significantly improves the fracture resistance. At the same time, the innovative design ensures higher reliability, as the bottom inserts are held in place by double-faced contacts. Another advantage: The new flute design (large, smooth) prevents the chips from clogging. Thanks to this combination, MECHT reduces not only chattering issues but also renewed chip recutting issues.

Longer tool life ensures stable and constant performance

In addition to the advantages of the new tool design, the new Kyocera milling cutter is also more durable due to its conditions. The JS chipbreakers require a significantly lower cutting force than other cutters. Due to this extremely sharp cutting performance, heat development at the cutting edge is kept to a minimum – which, again, ensures a long tool life. Furthermore, MECHT was developed with heat-resistant MEGACOAT NANO coating technology. The tough PVD-coating (PR1535) increases the breaking strength of the product and the stable and long-lasting application possibilities as well.

Features MECHT

Toolholder lineup:	End mill type: 32 mm Shell mill type: 50 mm – 80 mm
Insert size lineup:	11, 17 mm
Corner radii:	R 0.2, 0.4 and 0.8 mm

For more Information about Kyocera: www.kyocera.eu

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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