

Press information

Kyocera presents innovative Magic Drill DRA: Modular drill with low cutting force for excellent drilling accuracy

Reduced deflection thanks to optimised drill bit, high smoothness during deep drilling, good chip control and easy drill bit replacement yield highly efficient and extremely precise results.

Kyoto, Japan / Neuss, Germany April 20, 2016 – The advanced ceramics specialist Kyocera is launching the new Magic Drill DRA, a highly efficient drill with an easily replaceable drill bit, which achieves superb drilling accuracy at a low cutting force. The optimisation of the drill bit and chip flute as well as a special coating ensure high stability and long tool life.

Magic Drill DRA's development background

Presently, there are a diverse range of materials to be processed which are also becoming lighter and lighter. Therefore, a drill needs to be capable of being used for different materials while maintaining high drilling precision.

Drilling accuracy is a function of the holder's stability and the degree of deflection during drilling. A larger drill bit reduces deflection and thus increases stability and drilling accuracy. However, clamping or jamming of chips may occur due to the smaller chip flute, particularly when drilling deep holes. With its Magic Drill DRA, Kyocera optimally resolves this conflict between greater stability and smaller chip flute.

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The Magic Drill DRA is a highly efficient modular drill that combines superb drilling accuracy with excellent chip control. The drill bit ensures high stability. It is 20% larger than that of competitors, and its helix angle and flute design have been optimised — which prevents deflection. The excellent drilling accuracy is achieved by reducing the cutting force by means of a special S-shaped chisel edge that minimises thrust and vibration during drilling.

Consistent chip removal is made possible thanks to an optimised chip section and support groove with a wider fillet (5D, 8D). When signs of wear and tear appear, it is easy to replace the drill bit in no time at all. The screw that holds the drill bit to the holder merely has to be loosened, not completely unscrewed, and then tightened again after the replacement. Moreover, Kyocera's MEGACOAT NANO PR1535 coating ensures long service life of the drill bit and stable processing of different materials.

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 226 subsidiaries (as of March 31, 2015), are information and communications technologies, products which increase quality of life, and environmentally friendly products. The technology group is also one of the oldest producers of solar energy systems worldwide, with more than 40 years of experience in the industry.

The company is ranked #552 on Forbes magazine's 2015 "Global 2000" listing of the world's largest publicly traded companies.

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With a global workforce of over 68,000 employees, Kyocera posted net sales of approximately €11.74 billion in fiscal year 2014/2015. The products marketed by the company in Europe include printers, digital copying systems, microelectronic components, fine ceramic products and complete solar power systems. The Kyocera Group has two independent companies in the Federal Republic of Germany: Kyocera Fineceramics GmbH in Neuss and Esslingen and Kyocera Document Solutions in Meerbusch.

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 €360,000 per prize category).

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