

## Kemet introduces Xebec PATH™ to Beautiful Deburring

During most machining operations, components become burred, and sharp edges or material compression occurs. This can create issues with assembly and failure of parts with material breaking off during components' working life. Removal of burrs is also critical to many of the lapping and polishing processes Kemet develop for customers, to prevent damage to lapping/polishing support materials and extend their life.

Kemet are always monitoring technical developments around the world and are delighted to be able to offer a comprehensive deburring solution in the full range of Xebec deburring and polishing products. These cater for either hand use or for in process, CNC/Robotic use, with tailored products for the full range of deburring challenges.

The range includes tools for a range of deburring applications. For deburring after face-milling, end milling and drilling; threading and drilling, and also polishing brushes to remove cutter marks on top surfaces, side, inner diameters and channels.

In addition to the ceramic brushes is a range of Back Burr Cutters, specifically for deburring front and back of drilled or tapped holes. These are supplied with a custom programmed tool PATH™ so there is no additional programming needed by the user; co-ordinates are supplied along with the tools for your specific application. Thanks to PATH™, the cutter cuts into a 3D curved edge with the optimal cutting angle ensuring no secondary burrs are generated. The tool life is dramatically extended by continuously shifting the contact point of the cutting edge. In tests these tools have been proven to cut machining times by up to 90%.

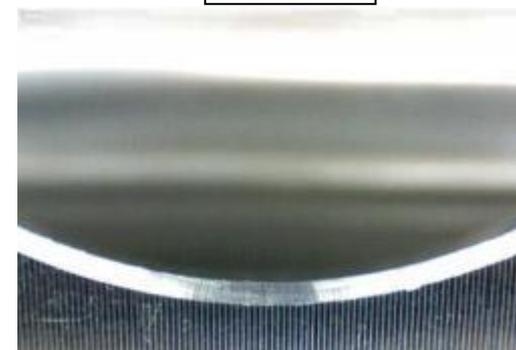
Made from micro-grain cemented carbide, the cutters are sharp and long lasting, with a highly heat-resistant AlTiCrN coating suitable for machining a wide range of materials from non-ferrous (e.g. aluminium and brass) to more difficult materials, such as titanium and Inconel. The helical blade provides a cleaner cutting edge and prevents secondary burrs.

The combination of the spherical deburring cutter and the custom-made tool PATH™ enables hole deburring on a 3D curved edge using a CNC machine. High-speed and excellent quality deburring is achieved while maximizing the tool life. The tool path data can be used as soon as it has been installed on a CNC program, saving the time needed to develop the program. Cycle time is also reduced because of single edge-contouring operation - 5 to 10 times faster than conventional tools.

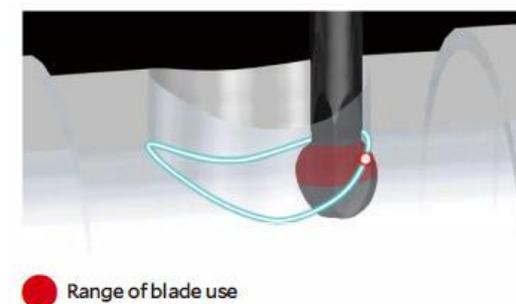
The cutters can be used on a wide variety of machines with 3-axis simultaneous control, including Machining Centres, Combined Lathes, Lathes with milling function, or Automatic lathes and one size can support edges in different sizes and shapes, shortening the cycle time by minimizing tool changeover.



Before



After



Range of blade use

For more details on how the Xebec deburring range can dramatically improve your productivity contact Kemet on T: 01622 755287 E: [Sales@Kemet.co.uk](mailto:Sales@Kemet.co.uk), W: [www.Kemet.co.uk](http://www.Kemet.co.uk)