OPEN MIND at IMTS 2012 in Chicago - hyperMILL 2012 makes its debut

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Wessling (Germany), 14 August 2012 - OPEN MIND is exhibiting at the International Manufacturing Technology Show (IMTS) from September 10-15, 2012. Featured in the booth will be the new version of hyperMILL 2012 with innovations such as automatic programming options for rectangular pockets, optimisations for 3D roughing and new strategies for 5axis machining. This software version contains meaningful improvements in all technology segments, as is typical with hyperMILL releases. OPEN MIND will also be showcasing and providing previews of the newly developed CAD solution hyperCAD-S at booth E-3351 in McCormick Place, Chicago.
The new 'adaptive pocket' machining mode allows for automatic programming of rectangular pockets. Within a machining job, classification occurs automatically in closed and open pockets and rectangular levels. According to the various accessibility conditions for the tool and relative sizes of the tool and pocket, hyperMILL automatically selects the most suitable machining method: spiral, contour-parallel or peeling. The optimised clearing movements take place in long, straight paths with constant cutting conditions. Critical full cutting areas are parameterised separately, allowing control over feedrate values and reduced production times.
Time-saving 5axis strategies
The ways in which machining times have been shortened are both simple and ingenious: During 5axis shape offset machining with hyperMILL, users now avoid redundant movements thanks to the new axial sorting option that makes it possible to divide machining by area. This allows corners or pockets, for example, to be machined individually one after another. The user can decide whether to create toolpaths with offset level sorting or axial sorting.
There are several new features for roughing in the 5axis impeller and blisk package. For machining of impellers, for example, it is now possible to divide the machining region into a left and right pocket between the main blade and the splitter. This new option means that these areas can now be machined with different tools in a targeted manner.
The flank mode during roughing enables swarf cutting near blade surfaces. The user can decide whether to use the swarf mode for every step or just for the last step. This extension results in a consistent stock allowance for finishing. Production time can also be reduced here as preliminary finishing can be skipped.
Optimal tool use
hyperMILL 2012 supports tapered tools for 3D ISO machining - including automatic collision avoidance. In the process, the entire tool is checked for collisions against the model, which ensures high process reliability. Tapered tools offer more stability, reduce tool vibrations and improve surfaces simultaneously.
For turning operations, hyperMILL functionality has been extended to include inclined grooving. This is why offset tools can now also be used. The tool database has therefore been expanded to include these recessing tools.
Toolpaths
Pocket milling has been improved in the 3D roughing area. As a result, for the machining of pockets, the ramp is moved continuously in one direction. The pocket is then cleared from the outside in. Advantage: Thanks to the continuous inward movement of the ramp, the tool path is optimised, and zig-zag movements are avoided

About OPEN MIND Technologies AG
OPEN MIND Technologies AG is a leading developer of CAD/CAM software and postprocessors for designing and manufacturing complex moulds and parts. OPEN MIND offers an extensive range of products from 2D feature-oriented solutions for milling standard parts through to software for 5axis simultaneous machining.
With their hyperMILL software, which is used in the automotive, tool and mould manufacturing, mechanical engineering, medical and aerospace, and watch and jewellery industries, OPEN MIND Technologies AG is represented in all the important markets in Asia, Europe and North America.
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Die OPEN MIND Technologies AG ist ein führender Entwickler von CAD/CAM-Software und Postprozessoren für das Design und die Fertigung von komplexen Formen und Werkstücken. Das Produktprogramm reicht von 2D-Feature-orientierten Lösungen für das Fräsen von Serienteilen bis zur Software für die 5Achs-Simultanbearbeitung.Mit hyperMILL ? eingesetzt in der Automobilindustrie, im Werkzeug- und Formen-bau, im Maschinenbau, in der Medizintechnik, in der Aerospace- sowie in der Uhren- und Schmuckindustrie ? ist die OPEN MIND Technologies AG in allen wichtigen Märkten in Asien, Europa und Nordamerika vertreten.Die OPEN MIND Technologies AG ist ein Unternehmen der Mensch und Maschine Unternehmensgruppe (www.mum.de).