

***NEWS RELEASE***

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Editorial Michael McCue OPEN MIND Alan Levine

Contact: McCue & Associates LLC Contact: OPEN MIND Technologies USA, Inc.

978-733-1353 339-225-4557 [mmccue@mccueassociates.com](mailto:mmccue@mccueassociates.com) [alan.levine@openmind-tech.com](mailto:alan.levine@openmind-tech.com)

**OPEN MIND Introduces *hyper*MILL® 2023 CAD/CAM Software Suite featuring**

**New Capabilities, Optimizations for Higher Productivity**

*NEEDHAM, MA U.S.A.* *(January 11, 2023) –* [OPEN MIND Technologies](https://www.openmind-tech.com/en-us/), a leading developer of CAD/CAM software solutions worldwide, has introduced its latest *hyper*MILL® 2023 CAD/CAM software suite which offers users new and enhanced features for even more powerful and simplified NC programming in applications ranging from 2.5D machining to 5-axis milling. “We are pleased to introduce *hyper*MILL® 2023 to provide our customers with new, powerful CAD/CAM programming strategies, in addition to a wide range of enhancements – all designed to simplify and accelerate programming, improving the user experience,” said Mr. Alan Levine, Managing Director of OPEN MIND Technologies USA, Inc.

Diagram, engineering drawing

Description automatically generated

**New and Enhanced CAM Capabilities**

For easy programming of recurring shapes with a single click, *hyper*MILL® 2023 has a ***new*** **General Transformation Pattern** feature. The new feature uses a selected reference geometry and searches for the same reference in all other models regardless of its spatial orientation, creating a general transformation pattern including associated frames. This is highly useful when there are multiple components.

The new “General Transformation Pattern” feature in *hyper*MILL® 2023 makes it easy to program recurring shapes with a single click.

Diagram

Description automatically generatedTo ensure the highest level of safety while providing reliable programming when back boring, a ***new* 2.5D Back Boring machining strategy** enables back boring tasks to be programmed on machines with different kinematics conveniently and easily. Toolholders and inserts, as well as monobloc tools, are displayed one-to-one in the virtual machine and checked for collisions. Now programming the controller for countersinking, deburring and milling tools on the once inaccessible back side of a hole can be done with ease.

New ”2.5D Back Boring” strategy in *hyper*MILL® 2023 reliably avoids collisions when inserting and retracting tools on the back side of a hole.

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**An enhanced milling surface extension** is offered in *hyper*MILL® 2023 for “3D Z-Level Shape Finishing” and “3D Profile Finishing” strategies, ensuring high-quality and reliable surface extensions when required, even with complex geometries. Users can reliably and easily protect sharp edges and divide up machining areas, especially useful for creating high-quality surfaces in tool and moldmaking when combined with a “Smooth Overlap” feature.

**New Mill-Turn Capabilities, Enhancements**

***New*** for *hyper*MILL® MILL-TURN capability, now **“Smooth Overlap” is available for optimizing finishing paths in turning**. This function enables flawless transitions when multiple tools or orientations are required for machining, and approach/ retract macros can be used normally.

Also, for more flexible, simplified programming of free-form tools, **groove plunging with free tool geometry has been enhanced,** as all tool geometries can now be used for any type of workpiece contour when roughing. These same tool setting options, approach and retract macros are also available for standard tools.

**Enhancing Virtual Machining**

With the introduction of *hyper*MILL® 2023, the NC Optimizer feature in the ***hyper*MILL® VIRTUAL Machining strategy now optimizes fixed rotary and parallel axes** by automatically locating a kinematically correct and collision-free solution. This saves time by eliminating the need to manually interact with the axes.

For more information on *hyper*MILL® 2023, visit:[**New and enhanced capabilities in *hyper*MILL® 2023**](https://www.openmind-tech.com/en/cam/hypermill-2023/)

About OPEN MIND Technologies AG

Headquartered in Wessling, Germany, OPEN MIND is one of the world's leading developers of powerful CAM solutions for machine and controller-independent programming. The company develops optimized CAM solutions that include many innovative features unavailable elsewhere, to deliver significantly higher performance in both programming and machining. Strategies such as 2.5D, 3D, as well as 5-axis milling, mill/ turning, and machining operations like HSC and HPC, are efficiently designed into the *hyper*MILL® CAM system, providing maximum user benefit and compatibility with all current CAD solutions and extensive programming automation. OPEN MIND strives to be the best, most innovative CAD/ CAM developer in the world, and has earned the top five ranking in the CAD/ CAM industry according to the 2022 NC Market Analysis Report by CIMdata. OPEN MIND CAD/ CAM solutions meet and exceed the requirements of the most demanding industries such as automotive, tool and mold manufacturing, production machining, medical, job shops, energy and aerospace industries, and is represented in all key markets of Asia, Europe and the Americas. OPEN MIND is a Mensch und Maschine Company. <http://www.mum.de/>  For more information visit <https://www.openmind-tech.com/en.html>.

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