PRESS RELEASE

OPEN MIND Releases *hyper*MILL® 2023

Load faster, calculate faster and create backbores

Wessling (Germany), January 10, 2023 – The shift to *hyper*MILL® Release 2023 makes the CAD/CAM suite from OPEN MIND Technologies AG even more powerful and introduces innovative functions. Not only does the software load faster, but the calculation time of tool paths was able to be accelerated as well. In addition, the “General Transformation Pattern” function assures that you save time when machining recurring geometries. The new back boring machining strategy attains the highest degree of convenience and safety via its use of VIRTUAL Machining technology.

OPEN MIND has equipped [*hyper*MILL® 2023](https://www.openmind-tech.com/en/cam/hypermill-2023/) with a machining strategy for [back boring](https://www.openmind-tech.com/de/cam/hypermill-2023/). Programming the controller for the tools used to deburr and mill a countersink on the inaccessible back side of a hole can now be done with incredible ease. Because collision control is carried out using a 3D model of the tool in the virtual machine, damage created when inserting and retracting tools is safely avoided.

**Automatically transform any function**

Up to now, standard features such as pockets and holes were able to be selected automatically. With the “General Transformation Pattern” function, OPEN MIND now makes it possible to select any reference geometry and search for that same reference in all other models – regardless of its spatial orientation. This creates a general transformation pattern including a frame at each reference feature. This makes it easy to program recurring shapes with a single click. The function is also suitable for multiple setups, for example.

**5-axis strategy for more uniform surfaces**

The “5-axis halfpipe finishing” strategy makes it incredibly convenient to program continuous toolpaths for grooves, tubes, and halfpipes with any cross-section along an arched guide curve. This is a great advantage for users, as previously, this machining operation may have had to be divided into several steps. This strategy opens a wide range of applications, for example, in molds and dies where the tool axis points in the demolding direction.

**CAM in dialog**

The example of back boring and its collision control based on a digital twin shows how *hyper*MILL® VIRTUAL Machining is already playing a role in standard functions. Simulation technology based on real NC and machine data is becoming increasingly more important. OPEN MIND is driving the necessary communication between CAM system and machine controller forward. Currently [*hyper*MILL® VIRTUAL Machining](https://www.openmind-tech.com/en/cam/hypermill-virtual-machining/) supports controllers from HEIDENHAIN, SIEMENS, Mazak, FANUC, FIDIA, OKUMA, rödersTEC, D.ELECTRON, HURCO, and Haas. Others are to follow.

**CAD, CAM and data**

*hyper*MILL® 2023 not only leverages advances in computing power and software engineering to increase performance, but it also streamlines processes. For example, the *hyper*MILL® SIMULATION Center loads faster because it does not include unnecessary data for the calculation at hand. The optimized handling of data also proves to be an improvement in another area. *hyper*MILL® now makes it possible to import individual components from assemblies. Users can now use filters to select individual components when importing assemblies from other design systems’ native data. This reduces loading times for large assemblies and eliminates the need to subsequently delete individual parts that are not required.

Another new feature in [*hyper*CAD®-S](https://www.openmind-tech.com/en/cad/hypercad-s/)hyperCAD-S, the CAD part of the software suite tailored to CAM programmers’ needs, is the revision of the “Holes” function. A hole can be composed and parameterized from a library of hole fits, countersinks, and hole ends via a dialog, which includes a preview. To improve graphic clarity, threads can also be displayed if required.

**Available images**

The following images are available for download in printable format at:   
<https://kk.htcm.de/press-releases/open-mind/>

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| Source: OPEN MIND  **2.5D back boring: Collisions when inserting and retracting tools are reliably avoided.** | Source: OPEN MIND  **The new “General Transformation Pattern” feature makes it easy to program recurring shapes with a single click.** |
| Source: OPEN MIND  **Convenient programming of continuous tool paths for grooves, tubes, and half pipes with any cross-section.** | |

**Available videos**

You can find the following videos on our YouTube channel:   
<https://youtu.be/sgjZFmleU88>

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| Source: OPEN MIND  **Simple and reliable programming for 2.5D back boring.** |

About OPEN MIND Technologies AG

OPEN MIND is one of the world’s most sought-after developers of powerful CAM solutions for machine and controller-independent programming.

OPEN MIND develops optimized CAM solutions that include a high number of innovative features not available 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 built into the *hyper*MILL® CAM system. *hyper*MILL® provides the maximum possible benefits to customers thanks to its full compatibility with all current CAD solutions and extensive programming automation.

OPEN MIND strives to be the best and most innovative CAD/CAM manufacturer in the world, helping it become one of the top five in the CAM industry according to the “NC Market Analysis Report 2022” compiled by CIMdata. The CAD/CAM solutions of OPEN MIND fulfil the highest demands in the automotive, tool and mold manufacturing, production machining, medical, job shops, energy and aerospace industries. OPEN MIND is represented in all key markets in Asia, Europe and America, and is a Mensch und Maschine company.

You can find more information at [www.openmind-tech.com](http://www.openmind-tech.com).

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