PRESS RELEASE

OPEN MIND at EMO 2025

Turn-milling with *hyper*MILL® – live!

**Hall 6, Booth A41**

Wessling, Hanover (Germany), September 22, 2025 – OPEN MIND will be presenting live optimized turning and milling with the *hyper*MILL® CAD/CAM suite at EMO 2025 at booth A41 in Hall 6. On the Mazak INTEGREX i-100H S turning and milling center, an aerospace inspired workpiece will be manufactured using state-of-the-art machining strategies.

The 102 mm long high-strength aluminum (EN AW 7075) demo part with a diameter of 135 mm will use [5-axis technologies](https://www.openmind-tech.com/en/cam/5-axis-milling/) and [*hyper*MILL® TURNING solutions](https://www.openmind-tech.com/en/cam/turning-solutions/) from OPEN MIND. The demonstration will showcase a wide range of functions and strategies for mill-turning, turn-milling, and turning, which have been further enhanced in the latest release*, hyper*MILL® 2025. First, machining operations programmed with [*hyper*MILL® MAXX Machining](https://www.openmind-tech.com/en/cam/hypermill-maxx-machining/roughing-hpc/high-performance-milling/) performance package will be shown. Trochoidal roughing will be used for both [turning](https://www.openmind-tech.com/en/cam/hypermill-maxx-machining/roughing-hpc/high-performance-turning/) and [milling](https://www.openmind-tech.com/en/cam/hypermill-maxx-machining/roughing-hpc/high-performance-milling/). HPC finishing with 5-axis tangential machining will be performed with conical barrel cutters from Ceratizit to demonstrate how optimized strategies ensure the best surface quality in the shortest possible time.

**New functions**

OPEN MIND is taking this opportunity to present new features added to the latest release. For 3D-optimized roughing, the pocket milling algorithm has been redesigned to achieve greater efficiency in roughing, especially with large lateral infeeds. Toolpath roundings can be better controlled thanks to the separate definition of contour and path radius. New, convenient deburring functions are also available. 5-axis deburring is an effective solution for breaking sharp edges on parts. After selecting the edges, the strategy automatically calculates all toolpaths. The strategy supports both a 3-axis and 5-axis mode, in which machining is indexed where possible. The same applies to the strategy for deburring edges on holes.

Another innovation on show will be the automatic stock chain. It is a new stock handling system in *hyper*MILL® This provides reliability, especially when switching between turning and milling operations. *hyper*MILL® creates all stock models automatically in the correct order — even if a machining job is reordered.

**What the digital twin can do**

The EMO demonstration also offers an opportunity to experience the latest version of *hyper*MILL® VIRTUAL Machining. For the first time, a machine with a main and counter spindle as well as a milling head has been simulated to demonstrate how part transfer is programmed and simulated. Previously, only the programming could be simulated, but now the transfer can also be simulated. Machining operations with the main and counter spindles can be conveniently programmed in a job list, and the machining sequence can then be simulated in detail.

**Available image material**

The following image material is available for download in printable form on the Internet:   
<https://kk.htcm.de/press-releases/open-mind/>

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| Ein Bild, das Cartoon enthält.  KI-generierte Inhalte können fehlerhaft sein.  Source: OPEN MIND  **HPC turning ensures high material removal in the shortest possible time.** | Source: OPEN MIND  ***hyper*MLL® 5-axis deburring for reliable deburring of sharp part edges directly on the machine.** |

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| Ein Bild, das Screenshot, Maschine, Grafiksoftware, Design enthält.  KI-generierte Inhalte können fehlerhaft sein.  Source: OPEN MIND  **New in *hyper*MILL® VIRTUAL Machining: Simulation of part transfer on a machine with main and counter spindles and a milling head.** |

**About OPEN MIND Technologies AG**

OPEN MIND Technologies AG is one of the world’s leading developers of powerful CAD/CAM solutions for machine and controller-independent programming.

OPEN MIND develops optimized CAD/CAM solutions that include innovative and unique features that can deliver significantly higher performance in both programming and machining.

*hyper*MILL® is a completely modular CAD/CAM solution that provides state-of-the-art CAM technologies on its own CAD platform: from 2.5D, 3D and 5-axis machining as well as turning strategies and solutions for additive manufacturing, HSC and HPC machining. Whether automation, simulation or virtual machine – trendsetting technologies expand the product range and enable continuous digital process chains. Special applications, seamless interaction with all popular CAD solutions and exceptional customer service rounds out the company’s products and capabilities.

According to the “NC Market Analysis Report 2025” compiled by CIMdata, *hyper*MILL® is a leading, worldwide CAD/CAM solution. Innovative CAD/CAM technologies fulfill the highest demands in aerospace, automotive, tool and mold manufacturing, production machining, medical, job shops, energy and semiconductor industries.

OPEN MIND's majority stake in manufacturing execution system (MES) developer Hummingbird expands the CAD/CAM manufacturer's product portfolio and enhances the range of connected digitalized manufacturing technologies.

OPEN MIND is a Mensch und Maschine company and has subsidiaries and qualified sales partners on all continents.

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

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