PRESS RELEASE



OPEN MIND at Farnborough International Airshow

*hyper*MILL® CAM solution ready for Farnborough Take-Off

**Hall 1, Stand 1056**

Wessling (Germany), 5th July 2022 – From the 18th to the 22nd of July, the entire aviation industry will descend upon the Farnborough International Airshow to learn, network and do business. As an industry-leading CAD/CAM solution provider to the aerospace industry, OPEN MIND Technologies will be delighted to return to the international event to introduce its latest innovations.

The International Airshow will provide OPEN MIND with an opportunity to demonstrate how it helps manufacturing companies in the aerospace sector gain a critical edge in the face of tough competition. On Stand 1056 in Hall 1 of the Farnborough show, OPEN MIND will introduce the latest version of its *hyper*MILL®CAD/CAM software*.* Version 2022.1 now incorporates more features, optimised strategies and a host of major enhancements for more powerful and simplified machine and controller independent NC programming.

On the booth, OPEN MIND experts will demonstrate the optimisations to *hyper*MILL® *that include* enhancements to the 5-axis strategies in VIRTUAL Machining. This will provide users with better results in terms of surface quality, new options for 2D functionality as well as efficient innovations in electrode manufacturing that deliver more convenient and faster programming for the aerospace supply chain.

*hyper*MILL® VIRTUAL Machining is all about generating, optimising, and simulating NC code reliably through a collection of targeted solutions. Virtual Machining can be used to map all process steps in CNC manufacturing for perfect process control. The modular technology now also supports additive machining programs. The Optimizer module, which delivers powerful optimisation algorithms for efficient multi-axis machining, also features the ‘Optimized Table-Table Logic’ function for easy programming and reduced air time between cuts. The user selects a distance value, and the Optimizer automatically calculates the safety distances using the raw part, component and clamps selected in the job list.

**Intelligent component alignment at the touch of a button**

Another tool for ensuring greater efficiency and cost-effectiveness in machining is the intelligent real-time component alignment in CAM using *hyper*MILL® BEST FIT. The unaligned component is probed on the machine using 3D probing, and the probing points are sent back to the CAM system in the form of a measuring log. *hyper*MILL® BEST FIT then precisely adjusts the NC code to the actual component position. The adapted NC code is subsequently simulated in the virtual machine on the actual clamping setup and optimised automatically. This has already proven to deliver significant savings for aerospace manufacturers worldwide.

**5-axis radial machining**

Machining strategies for 2.5D, 3D, HSC, Mill/Turn and 5-axis applications will also be demonstrated to show how they offer the ideal solution for any machining situation. The new ‘Flow Equidistant’ infeed strategy is the first of its kind that supports the generation of toolpaths with a constant infeed for vertical and challenging surfaces. This means that these surfaces can be integrated into the overall machining sequence and processed in a single step to provide seamless machining with a very high surface finish quality.

New undercut detection automatically identifies undercuts and makes the corresponding machining adjustments, if desired. This means that undercut areas can now be skipped with no manual intervention necessary. As a result, users do not need to generate additional surfaces.

A dedicated 3-axis machine mode greatly simplifies the use of radial machining on these machines, and the ‘Smooth Overlap’ function can be applied to the general milling area without selecting a boundary curve. For instance, the ‘Smooth Overlap’ function blends the transitions between two surfaces that have been milled in different machining directions. This results in perfectly transition-free surfaces. Of course, as the market-leading CAD/CAM system for the aerospace sector, *hyper*MILL® offers so much more. So, be sure that you make your way to the international airshow in July.

**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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| Image source: OPEN MIND  ***hyper*MILL® VIRTUAL Machining: NC code simulation of additive toolpaths** | Image source: OPEN MIND  **Tool information is transmitted directly to the controller for improved safety** |

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| Image source: OPEN MIND  ***hyper*MILL® offers modern solutions for efficient turbine ring machining.** | Image source: OPEN MIND  ***hyper*MILL® Blade package. Optimized milling strategies for turbine blade and hub machining enable complete machining.** |

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).

OPEN MIND Technologies UK Ltd., Oxford

Unit 3

Bicester Business Park

Telford Road

Bicester

Oxfordshire OX26 4LN

England

Phone: +44  1869  290 003

Fax: +44  1869  369 429

E-mail: Info.UK@openmind-tech.com

OPEN MIND Technologies USA, Inc.

1492 Highland Avenue, Unit 3

Needham MA 02492

USA

Phone: +1  339  225  4557 office

Phone: +1  888  516 1232 x0 toll-free

Fax: +1  270  912 5822

E-mail: Info.Americas@openmind-tech.com

Head office:   
OPEN MIND Technologies AG, Argelsrieder Feld 5, 82234 Wessling, Germany  
Tel.: (+49-8153) 933-500, Fax: (+49-8153) 933-501  
E-mail: Info@openmind-tech.com, website: www.openmind-tech.com

**Press contact:**

HighTech communications GmbH  
Brigitte Basilio  
Brunhamstrasse 21  
81249 Munich  
Germany  
Tel.: (+49-89) 500778-20  
Fax: (+49-89) 500778-78  
E-mail: b.basilio@htcm.de  
Website: www.htcm.de