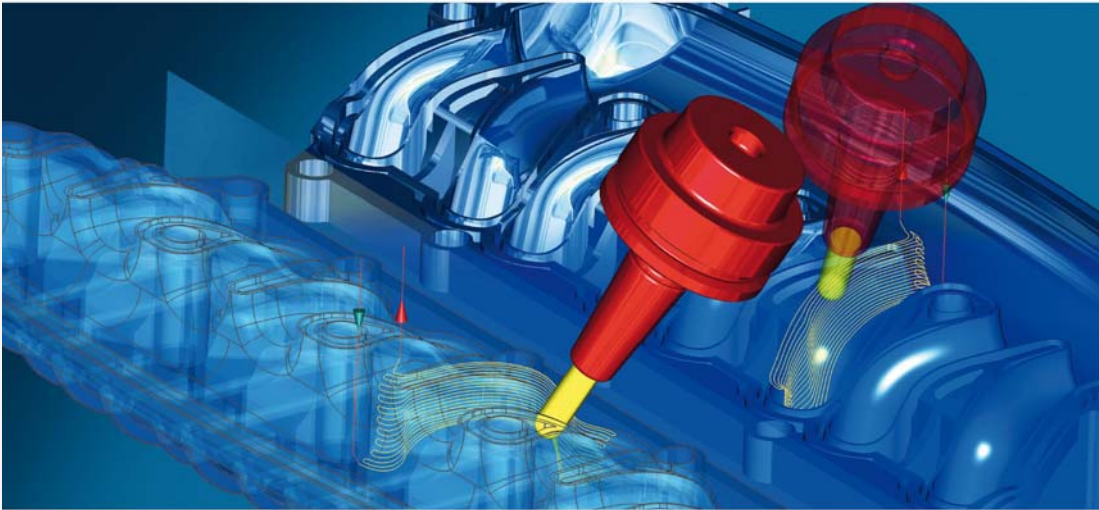


hyperMILL®



Important notes



OPEN MIND • THE CAM COMPANY



Additional information on the usage of single *hyperMILL* functionalities

Best machining results can only be realized by a good knowledge of the CAM system, post-processor, CNC control and machine. In the following chapters, we have prepared some important notes, requirements and restrictions when using several *hyperMILL* functionalities for you. If you have any questions, please contact your OPEN MIND partner.

This document will be continually revised to match the current state of the *hyperMILL*® product functions.

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Administrative Features

Multi Axis Indexing

Requires licensing of a **4-Axis Indexing** or a **5-Axis Indexing postprocessor (PP)**, which has to be purchased in addition.

Transformations of tool paths (Patterning, mirroring)

Produces extended NC output data. Support of CNC features like datum shift, sub-program output, etc. requires adaptation of the postprocessor. Your OPEN MIND partner is pleased to tell you the conditions.

Joblinking

The **5X mode** requires licensing of a **5-Axis simulation PP**, which has to be purchased in addition.

Support of Multiple Tool References

Requires special adaptation of postprocessor. Your OPEN MIND partner is pleased to tell you the conditions, price and availability.

2.5D Cycles

Thread milling, Gun Drilling

Requires a service agreement between customer and OPEN MIND for PP activation.

Optimized deep drilling considering stock model update/cross hole detection

Produces extended NC output data; support of CNC cycles is not available.

2D/5X Cycles

Drilling

For the usage in **5X Drilling** mode: RTCP (TCPC, TCPM, TRAORI etc.) a CNC-controller is required, which offers both, the function RTCP (or a similar function) as well as a function **tilted workplane**. Both functions must work without any restriction. A switch from one function to the other does not result in any movement of the part or cutter.

Due to safety precautions the **Tapping** cycle is not provided in a sequence of linear traverses (G1 movements). The support of **Tapping** requires a CNC controller that fulfils the above mentioned constraints. A service level agreement for PP activation is needed and a **5-Axis simultaneous PP** is needed, which has to be purchased in addition. The necessary license of hyperVIEW 5 Axis will be delivered together with the PP.

hyperMILL Bundle 2D: Drilling

Only **Drilling** mode included. It can be used in **5X Drilling** mode, if an appropriate postprocessor is available (see also **Drilling**).



3D Cycles

3D Cutter compensation

Available for **3D Z Level Finishing** and **3D Profile Finishing** only, for Heidenhain and Fanuc controllers only, that support this capability.

3+2 Advanced

Requires a **5-Axis Simultaneous PP**, which has to be purchased in addition.

Utilities

Machine simulation

A model of a machine tool is required from customer (not included). Please contact your OPEN MIND partner, who is pleased to tell you the conditions, price and availability.

Options

NC Simul / Vericut Interface

The usage of the Vericut / NC Simul interface requires in most cases some customization (project file, machine configuration, controller configuration). This customization will be performed by your third party simulation partner. Please contact your local partner, which is delivering the simulation software.

Support of Origin tables

Released with *hyperMILL* 2009.2 and requires special adaptation of postprocessor .

Please contact your OPEN MIND partner, who is pleased to tell you the conditions, price and availability.

5X Mold & Die Advanced

5X Automatic Indexing (segment optimised machining)

Only available for 5X Mold & Die Cavities.

General remark to 5AXIS:

Limited rotary axes may lead to limitations for certain machining strategies. For more information please contact your OPEN MIND partner, who is pleased to tell you the conditions, price and availability.