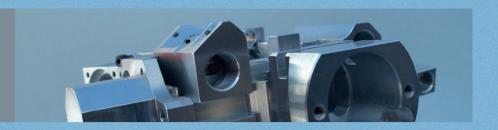


Seamlessly integrated for continuous processing





hyperMILL® in Autodesk® Inventor®











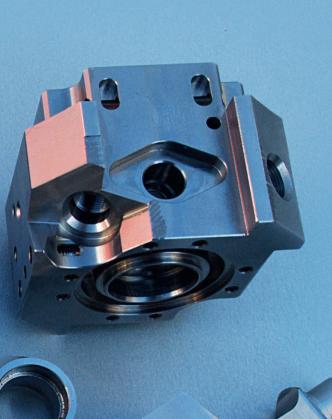




Excellent postprocessors hyperMILL®'s advanced CAM concept is further complemented by machining and material removal simulations that include workspace monitoring and OPEN MIND's postprocessor technology. All of these advantages are available directly within Autodesk Inventor.

times can be optimised.

In use all over the world OPEN MIND Technologies AG's hyperMILL® CAM software is used worldwide by companies from the mechanical engineering, automotive and aerospace industries as well as by tool and mould manufacturers.





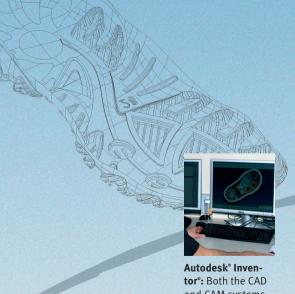
Efficient machining in continuous processes

Continuous processes with standardised data models guarantee security and transparency throughout the entire manufacturing process. Familiar user interfaces reduce the potential for human error and increase user acceptance. This is why *hyperMILL*® in Autodesk® Inventor® offers significant advantages.

Single database: Users work with just one single data model throughout the entire process, from design and programming right through to the simulation stage. It is therefore possible to carry out design and calculation tasks in parallel.

Familiar interface: Thanks to the CAD integration, the CAM product takes on the familiar 'look and feel' of the Inventor interface. The full-scale integration provides all mill-turn, 2D, 3D, HSC and 5axis machining strategies within this software environment. The user never has to exit the main programming interface, which leads to a faster learning curve and simplifies daily operations.

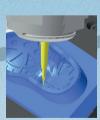
Take advantage of geometric features: The feature technology provided by hyperMILL® allows geometric data from



Autodesk® Inventor®: Both the CAD and CAM systems use the same data model. This eliminates data import issues as well as read/write errors.



Simple start-up: hyperMILL* is launched directly within Inventor* via the hyperMILL* button. Users can switch freely between the CAD and CAM systems at all times.

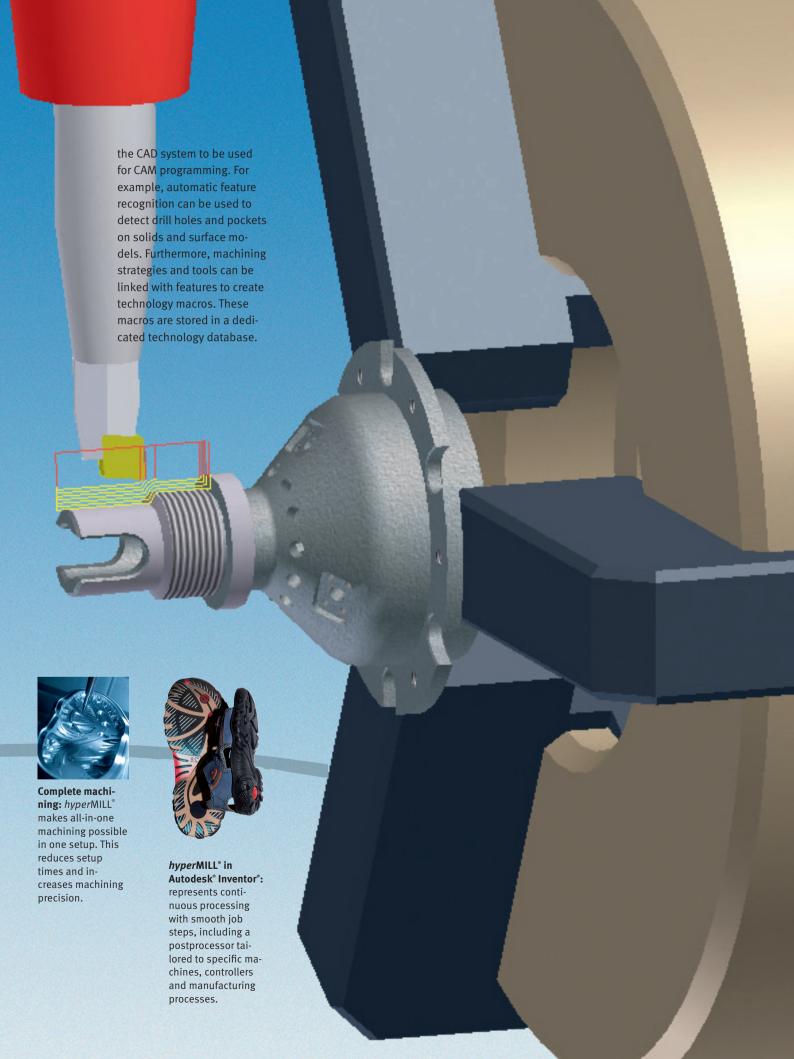


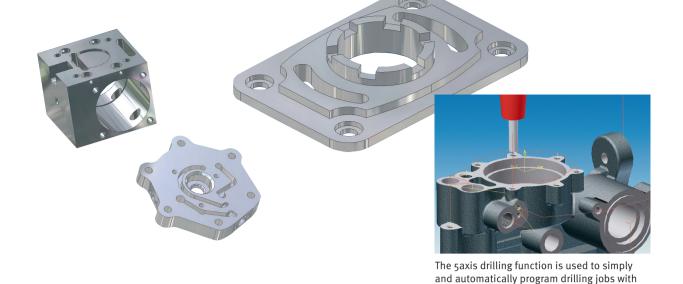
Safe on all sides: hyperMILL* incorporates the world's leading 5axis technology. Thanks to fully-automated collision avoidance, programming 5axis machining operations is no more difficult than 3D jobs.



Machine and

material removal simulation:
The workspace monitoring feature includes a unique 'best fit' function that allows you to optimise the setup position of a workpiece.





Innovative CAM strategies for flexible manufacturing

Thanks to the wide range of machining strategies provided, even highly specialised parts can be machined quickly and efficiently. Functions like tool path optimisation and job linking considerably reduce machine running times.

2D machining

2D machining offers the potential for even greater manufacturing efficiency. This includes functions such as contour milling with optimised traverse path and the fully integrated mill-turn module.

3D machining

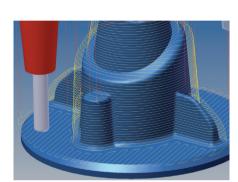
hyperMILL® integrates proven strategies to a new standard of quality. This is due to the fact that these strategies are supplemented by intelligent add-on functions that improve manufacturing results.

5axis milling

The 5axis technology in hyperMILL® often achieves time savings of more than 25 per cent, while at the same time reducing tool wear and increasing contour accuracy. Thanks to easy programming with automatic collision checking and avoidance, 5axis technology represents a reliable alternative for many standard milling tasks today.

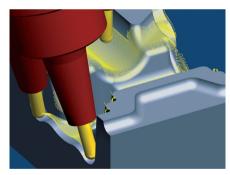
Save time with intelligent functions

Functions that apply to all strategies, such as stock tracking, milling and stop surface concepts, automatic collision avoidance, the new job linking function or transformation, all ensure an effective, user-friendly workflow.

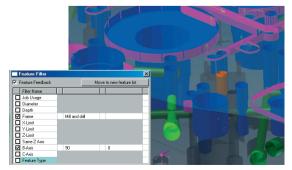


different tool angles in a single operation.

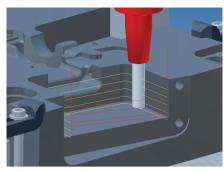
Complete finishing combines Z-level finishing and profile finishing, which allows machining to be automatically adapted to suit the requirements of individual model areas.



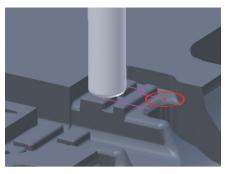
The automatic indexing function is an alternative to 5 axis simultaneous machining and seeks a fixed tool angle for continuous tool paths.



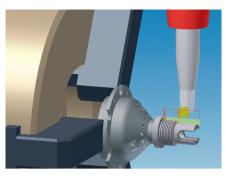
Automatic feature recognition detects geometries, such as holes, stepped holes with and without threads and open and closed pockets.



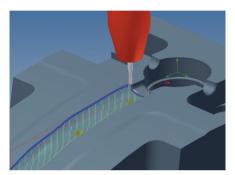
The new 2D contour milling cycle offers superb optimisation possibilities to reduce both programming and machining times.



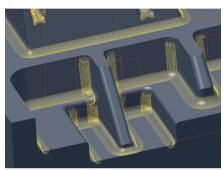
Playback milling allows you to flexibly define basic milling steps simply by rolling the mouse pointer over the relevant areas.



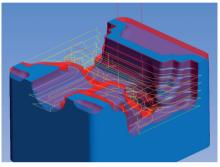
The *mill*TURN module, including turn roughing, turn finishing, grooving and thread turning, has been fully integrated.



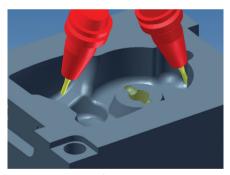
Profile finishing enables collision-free machining close to the contour across entire surfaces and surface formations.



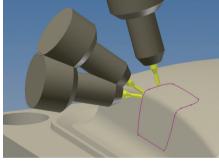
By referencing previous machining steps, rest material areas can be efficiently cleared.



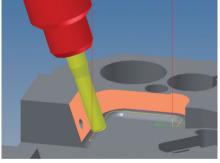
Stock tracking actively avoids collisions with the stock during roughing. If the tool shank or holder is on track to collide with the stock, tool paths are moved laterally.



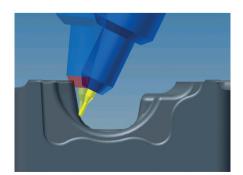
Thanks to *hyper*MILL® 5AXIS, 3D strategies such as Z-level finishing, profile finishing or equidistant finishing have been extended to include 5axis tool positions.



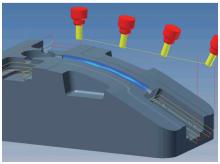
5axis contour machining allows for milling grooves, scribing, engraving, deburring and chamfering.



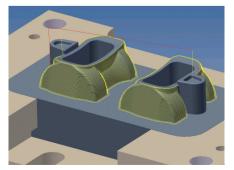
When using 5axis swarf cutting, the workpiece surface is machined with the tool flank. Wide spaces between paths reduce milling times.



hyperMILL® detects possible collisions and provides solutions to avoid collisions, for example, by calculating the required set-up length.



Several work steps that are performed by the same tool can be combined and performed in one operation using job linking.



Using mirroring, symmetrical parts or elements can be programmed quickly and without collisions. Climb milling movements remain intact.

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