

Mill turning.

In one setup. No set-up changes.





For efficient all-in-one machining: *hyper*MILL[®] *mill*TURN

*hyper*MILL[®] *mill*TURN is the mill turn module of the powerful *hyper*MILL CAM software[®]. It is completely integrated with only one user interface for all milling and turning strategies. The advantages of a modern mill turn machine for all-in one machining in one setup can be utilised very comfortably. Flexible planning is another advantage. Blanks can be turned from any material block.

Seamlessly integrated:

With the integration in *hyper*MILL[®], mill turn strategies as well as all 2D, 3D and 5axis milling strategies are available on one user interface. All turning and milling strategies can be freely combined. The user has a large degree of flexibility in programming and selecting the best possible machining strategy.

A high level of accuracy is achieved with mill turning in one setup

Stock tracking for all operations:

Stock tracking is calculated for all turning and milling operations. Each operation draws on a stock already taken into account in the previous machining step. This ensures the highest possible level of machining precision.



Flexible programming is made possible by an extensive spectrum of machining strategies

Turn roughing: Turn roughing can be carried out as long turning, facing or contourparallel roughing. Roughing can be carried out with a tilted tool. Falling contours are also taken into account.

Turn finishing: With this

strategy the roughed surfaces are finished by contour-parallel machining. Different approach and retract macros, such as tangential approach/retract or approach/retract in arc movements, make optimal machining possible. The various approach and retract macros can be combined with each other.

Grooving: With this strategy parts with shoulders and grooves can be machined. Grooving, parting off and groove turning are programmable. Different options are available, such as axial grooving, axial grooving with ramp for materials that are difficult to chip, radial roughing for thin and deep grooves or several finishing strategies.







A tool database:

The shared tool database can be used for turning, milling and drilling tools and therefore enables standardised tool management. The complete description of the cutting and holder geometry as well as the position provides an optimal basis for fully automated collision control. Furthermore, the user is able to define free collision zones. For grooving tools, the ISCAR groove turn strategy has been integrated.

One postprocessor:

A postprocessor individually adapted to the machines, controllers and components used generates the NC codes for turning and milling operations in one NC program. Thread cutting: This strategy is used for turning external and internal threads with a constant pitch. This makes it possible to turn single- or multiple-start cylindrical or cone-shaped external and internal threads. Infeed occurs with either a constant chip section or a constant X value. Threads are very easy to define by determining the outer edge of the thread, core or outer diameter, as well as leading or trailing movement.

Drilling: On mill/turn machines, this strategy is an alternative to helical drilling. It is useful for turning holes on the workpiece's axis of rotation with a fixed tool. Stock tracking can also be used with this strategy.





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We push machining to the limit