

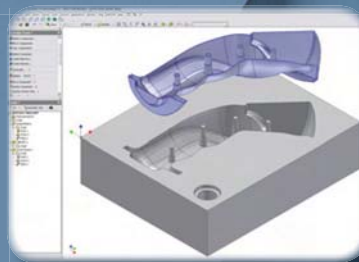
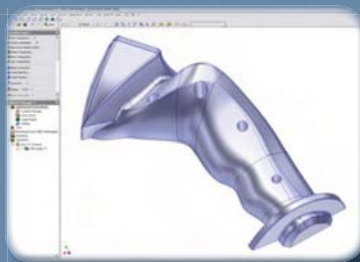
# SolidCAM

The integrated CAM-Engine  
for Autodesk Inventor

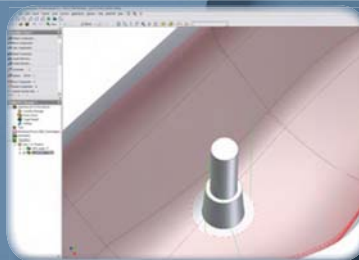
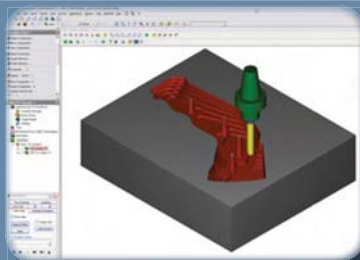
SolidCAM's powerful CAM functionality provides a total manufacturing solution, fully integrated inside Inventor.

*Full seamless integration inside Inventor*

All CAM operations are defined, calculated and verified inside the Inventor window. SolidCAM provides full associativity of the calculated toolpath to the Inventor model.

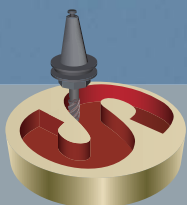


« You never have to leave Inventor's window... »



*Total manufacturing solution inside Inventor*

- 2.5D Milling
- 3D Milling
- High Speed Machining
- 3+2 Multi-Sided Milling
- Simultaneous 5-Axis Milling
- Turning
- Turn-Mill
- 2/4-Axis Wire EDM

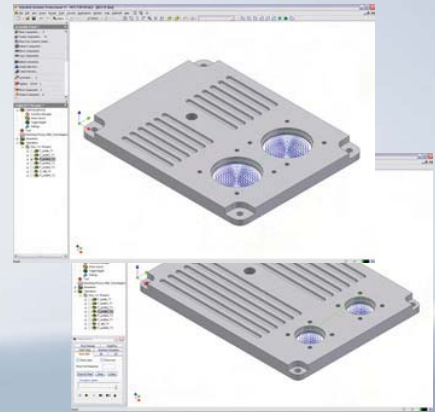


[www.solidcam.com](http://www.solidcam.com)

## Full Integration and Associativity

With the single-window integration of SolidCAM in Inventor, all machining operations can be defined, calculated and verified without leaving the Inventor assembly environment. All 2D and 3D geometries used for machining are fully associative to the Inventor design model. In a single CAM-Part, several Inventor iAssembly configurations can be used. Each configuration can represent an independent state or production step of a workpiece. When

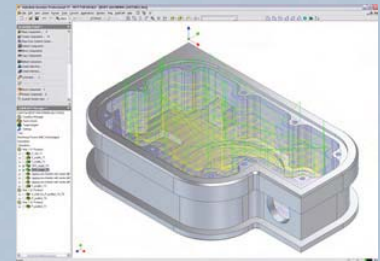
the geometry used to define a machining operation is changed in the Inventor design, SolidCAM enables the user to automatically synchronize all machining operations with the updated geometry. The full associativity to the Inventor design model reduces errors when the model changes and facilitates the process where updates are received for models already machined.



## 2.5D Milling

SolidCAM provides both interactive and automated 2.5D Milling operations on Inventor models, with features such as pockets, profiles and drills. Operations can be easily reordered, moved, rotated and

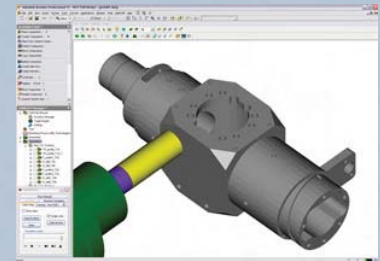
mirrored. SolidCAM's Automatic Feature Recognition and Machining (AFRM) module automates the manufacturing of parts with multiple drills and complex holes.



## 3D Milling

SolidCAM's 3D Milling can be used both for prismatic parts and for complex 3D models. For prismatic parts SolidCAM analyzes the model and automatically recognizes pockets and profiles to be machined using Z-constant machining strategies. For molds, electrodes and prototypes, SolidCAM offers powerful 3D ma-

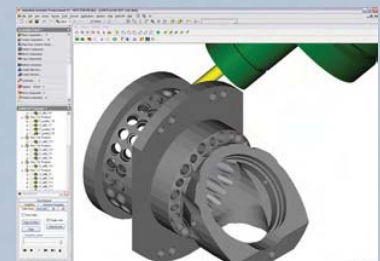
chining, including advanced High Speed Machining strategies and integrated rest material options. No matter how complex the model, SolidCAM provides the optimal approach and roughing strategy with superior 3D finish machining for mold and die applications.



## Turn-Mill & Turning

SolidCAM provides support for up to 5-Axis (XYZCB) Turn-Mill CNC machines. All of SolidCAM's milling and turning operations can be used for the Turn-Mill CNC

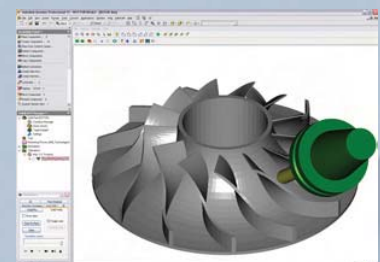
machines. SolidCAM provides special support for the advanced machining technologies of ISCAR's Turn-Groove tools.



## Indexial 4/5-Axis Multi-Sided Machining

With SolidCAM, programming and machining of multi-sided parts on 4- and 5-Axis machining centers is efficient and profitable. SolidCAM rotates the Inventor model to the user-defined machining planes and automatically calculates all necessary shifts and tilts for the 3D machining coordinate systems. SolidCAM enables flexible

set-ups and reduces the need for special clamping jigs. You can define your 2.5D and 3D machining operations on any face and check them using SolidCAM's advanced tool path verification. The output is ready-to-run programs for your 4/5-axis CNC-machine.



## Simultaneous 5-Axis Machining

SolidCAM provides intelligent and powerful 5-axis machining strategies, including swarfing and trimming, for machining of complex geometry parts including mold cores and cavities, aerospace parts, cut-

ting tools, cylinder heads, turbine blades and impellers. SolidCAM provides a realistic simulation of the complete machine tool, enabling collision checking between the tool and the machine components.

## 2/4-Axis Wire-EDM

SolidCAM Wire-EDM handles profiles and tapers with constant and variable angles, as well as 4-axis contours.

SolidCAM provides full user control of stop-points and of wire cutting conditions at any point of the profile or taper.