

# InventorCAM



## Inventor + InventorCAM

The complete integrated Manufacturing Solution

["TOOL 2 - DIA 24.0"]

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2.5D Milling

3D Milling

HSM - High Speed Machining

Multi-Sided Indexial Milling

HSS - High Speed Surface Machining

Simultaneous 5-axis Milling

Turning

Mill-Turn up to 5 axes

Wire EDM



## InventorCAM - the Certified Integrated CAM-Engine for Inventor

### THE MACHINIST'S CHOICE

- For more than 2 decades, thousands of worldwide users have relied on the innovative CAM solutions provided by SolidCAM.
- InventorCAM is used in the Mechanical Manufacturing, Electronics, Medical, Consumer products, Machine design, Automotive and Aerospace industries, Mold, Tool and Die and Rapid Prototyping shops.

### FULL INTEGRATION AND ASSOCIATIVITY

- With the seamless Single-Window integration of InventorCAM in Inventor, all machining operations are Defined, Calculated and Verified without leaving the Inventor environment.
- All Geometries used for machining are fully Associative to the Inventor design model. InventorCAM enables the user to Automatically Synchronize all Machining Operations with the updated geometry.

### ADVANCED CAM-INTELLIGENCE

- InventorCAM supports Knowledge-Based Manufacturing through Customizable Parametric Process Templates.
- InventorCAM's Automatic Feature Recognition and Machining (AFRM) module Automates parts manufacturing.

### VISUALIZATION AND MACHINING OF REST MATERIAL

- At any stage of the manufacturing process, InventorCAM provides powerful functions to Display, Analyze and Machine the Rest-Material.
- Realistic Verification tools for 2D Simulation, Solid Verification and Machine Simulation.

### Milling

- 2.5 Axes
- 3 Axes
- High Speed Machining
- 4/5 Axes Indexial
- 4/5 Axes Simultaneous

### Mill-Turn

- Axes - XZ
- Axes - XZC, XYZC, XYZCB
- Backspindle Support

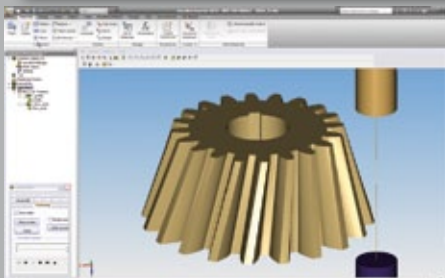
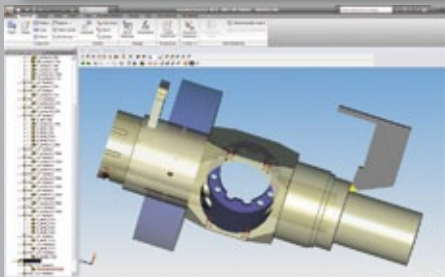
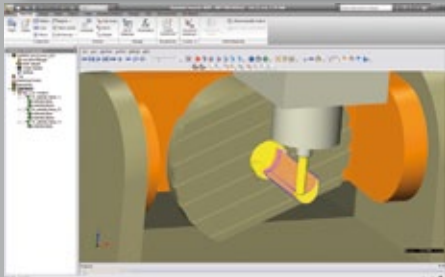
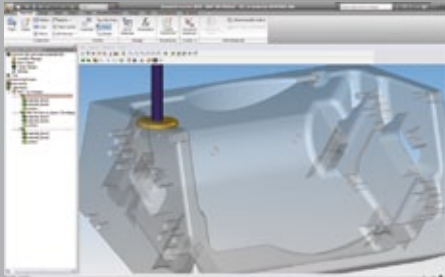
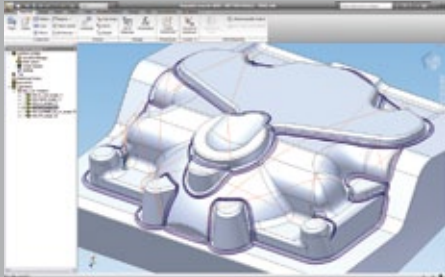
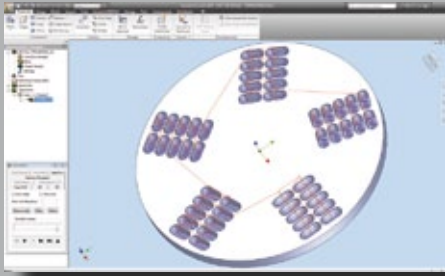
### EDM

- Wirecut 2 Axes
- Wirecut 4 Axes
- Electrodes



**SolidCAM**  
The Leaders in Integrated CAM

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## 2.5D MILLING

- Provides Interactive and Automated powerful 2.5D Milling operations on Inventor models
- Supports Profile and Pocket Rest-Material-Machining
- Automatic Pocket and Hole Feature Recognition and machining
- Supports Special Thread milling operation

## 3D MILLING

- Ideal for 3D milling of mainly Prismatic parts
- Automatic detection of Flat and Vertical areas
- Integrated Rest-Material-Machining
- Supports Trochoidal and Plunge roughing

## HIGH-SPEED MACHINING (HSM)

- Powerful module for High-Speed machining of complex 3D Parts, Aerospace Parts, Molds, Tools and Dies
- Offers Unique machining and linking Strategies for generating High-Speed Toolpaths
- Cutting moves and Retracts are Smoothed to maintain a continuous machine motion
- Retracts are kept to a minimum - to Minimize Air cutting
- Efficient and Smooth Toolpaths prompts Top Surface Quality, reduces Tool Wear and increases CNC Machine Tools life

## INDEXIAL 4/5 AXES MACHINING

- Efficient and Profitable machining of Multi-Sided Parts on 4/5 axes machining centers
- Enables Flexible Set-ups and reduces the need for special Clamping Jigs

## HIGH-SPEED SURFACE MACHINING (HSS)

- Powerful module for High Speed Surface Machining
- Easy Machining of any Local Surface area, with No need to define Surface Boundaries
- Handles Undercut Conditions using Slot or Lollipop tools

## SIMULTANEOUS 5-AXIS MACHINING

- Industry-Proven 5-axis machining Strategies
- Powerful Collision Check and avoidance for Tool, Holder and other Machine Tool Components
- Simulation of Whole machine tool, showing the motion of all Rotary and Linear axes

## TURNING AND MILL-TURN UP TO 5 AXES

- Supports all machine Turning Cycles
- Rest-Material-Machining capability Built Into All Turning Operations
- Integrated Mill-Turn capability with XZC, XYZC and XYZCB axes
- Support of Back Spindles

## WIRE-EDM

- Supports 2-axis and 4-axis Wire-EDM
- Handles Profiles and Draft Angles with Constant and Variable Values
- Full user control of Stop Points and Wire Cutting Conditions