

# Mastercam<sup>®</sup>

## Solids

Solid modeling is transforming the way parts are designed. Now you can bring that power right into your shop.

- Faster modeling of parts, molds, and fixtures using integrated solids, surfaces and wireframe.
- Greater flexibility in accepting outside models.
- Solids machining with access to Mastercam's powerful CAM functions.
- The addition of Solids turns Mastercam into a true hybrid modeler.

Based on the industry-leading Parasolids<sup>®</sup> kernel, Mastercam Solids delivers powerful solid modeling with an eye for production. And best of all, Mastercam Solids is backed by a worldwide network of CAD/CAM professionals who know the needs of NC programmers.

### Solid Modeling for Manufacturing

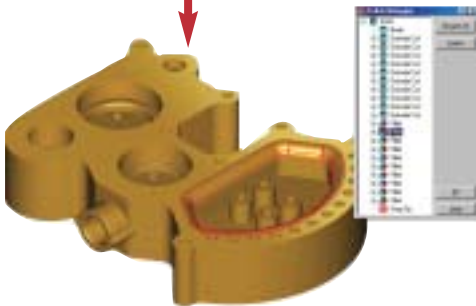
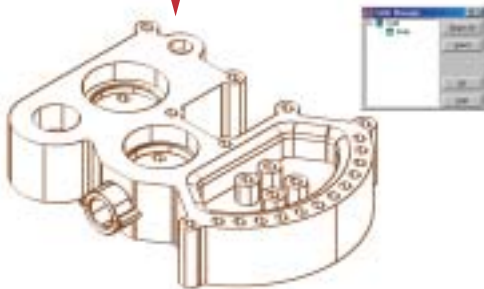
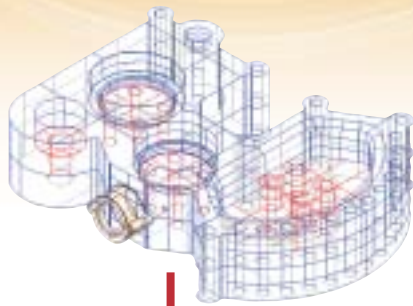
- Mastercam Solids gives you powerful, streamlined solid modeling for practical design.
- Fast solids construction using familiar modeling techniques.
- Powerful revolve, extrude, loft and sweep commands.
- Easy shelling and thin-wall creation.
- Boolean addition, subtraction and common volume calculation between solids and surfaces.
- Fast, efficient filleting and chamfering.
- Draft solid faces.
- Create sheet solids that can be thickened, shelled, and more.
- Trim solids to a single surface or to multiple surfaces using sheet solids for maximum design potential.
- Freedom to model without part constraints.
- Hybrid modeling interaction between solids, surfaces and wireframe.

### Flexible Hybrid Modeling

Flexibility is crucial to efficient part design and programming. Mastercam Solids lets you mix and match modeling techniques. Need to add surface or wireframe elements to a solid? Want to quickly add solid components to a complex surface model? Now it's easy. Mastercam Solids gives you the speed of solids, the power of surfaces, and the simplicity of wireframe. You choose the right tool for the right job.

### Precision Tools for Flexible Design

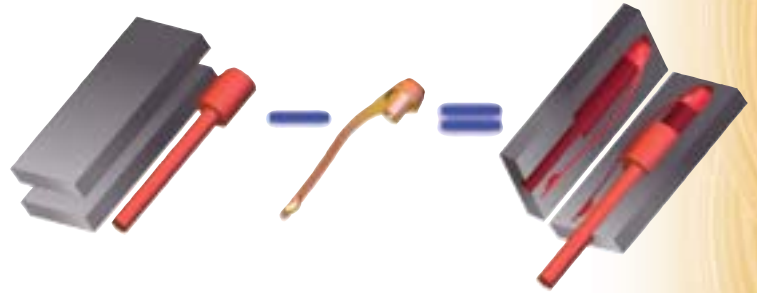
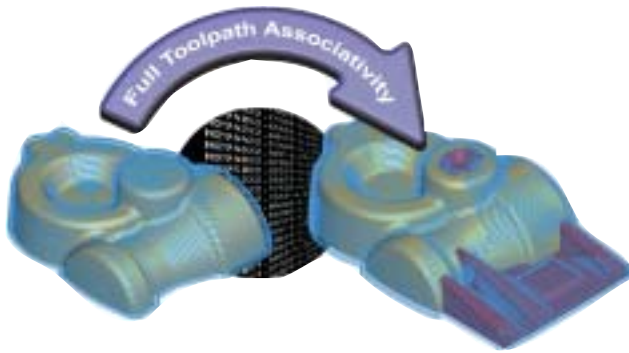
- Sew multiple surfaces into a single solid.
- Mastercam's Solid Feature Recognition identifies features such as fillets and holes on imported solids and adds those features to the history tree.
- Delete and add solid faces for easy solid modification.



**Mastercam can turn unlimited surfaces into a single solid model. You can also scan a solid body that contains no history tree for holes and fillets, adding them to the history tree as fully-editable features.**

## Solid Machining Made Easy

Mastercam Solids is a fully integrated add-on to Mastercam CAD/CAM products. When combined with Mastercam Mill, Mastercam Solids gives you the ideal way to machine your solid models. Import, create, and program your solids in the same easy-to-use interface, with full access to all Mastercam's powerful programming tools.



The Mastercam Mill / Mastercam Solids combination gives you full associativity between your model and toolpath. Make a quick change to your model, and get an updated toolpath with a single mouse click.

Solids gives you freedom unavailable with other types of modeling, such as removing your model from a solid block to create a mold.

Mastercam Solids combined with . . .	Mastercam Design	Mastercam Mill Level 1	Mastercam Mill Level 2	Mastercam Mill Level 3
Create import and export solids, surfaces and wireframe	✓	✓	✓	✓
Single interface for design and NC programming		✓	✓	✓
Fully associative 2D machining directly from solid		✓	✓	✓
Fully associative machining of single solid faces and single surfaces			✓	✓
Fully associative machining of unlimited complex solids and surfaces together as a single model				✓

### Open Access to Solid Models

- Import Parasolids®, SAT and Inventor™ files as solids, surfaces and/or wireframe.
- With optional STEP and Pro-E® you can import solids as solids, surfaces or wireframe.
- Export Parasolids® and SAT files.
- Open SolidWorks® and SolidEdge® files directly.

### Part Management and Detailing

- Solids Manager for efficient operation tracking, reordering and editing.
- Data including volume, surface area, and center of gravity.
- Automatic multiple view solids layout with hidden lines.
- Point-and-click dimensioning as easy as wireframe.

### System Requirements

- Pentium™based PC
- CD-ROM drive.
- Graphics capability of 800 x 600 resolution and 256 colors.
- Windows compatible mouse
- Windows™NT® 4.0 or higher, Windows 98, 2000, ME or XP.
- Minimum 64 MB RAM, 128 recommended; Minimum 350 MB free disk space in addition to Windows requirements.

# Mastercam®

When Second Best Won't Cut It.

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