

# CAMWorks 2007 Utilities

Save time, improve quality, increase productivity and lower costs

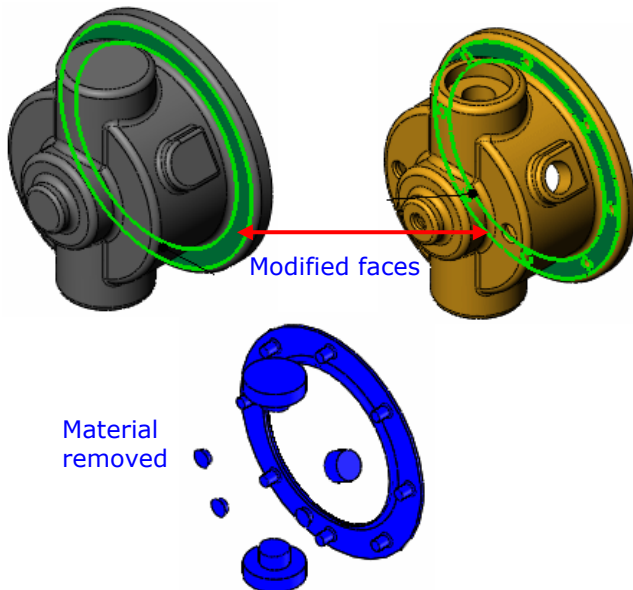
## CWDifferenceFinder

CWDifferenceFinder compares solid parts or surface models and identifies face and volume differences between two versions or two configurations of the same part. Using CWDifferenceFinder, you can improve quality with an accurate comparison of geometry and save time by avoiding a manual comparison of geometry.

Features:

- Identifies different or unique faces and edges
- Identifies overlapping faces
- Assemblies can be compared
- User defined tolerances can be set
- Imported solids can also be compared

CWDifferenceFinder can increase productivity in the design and manufacturing stages of product life cycles. Changes in the design can typically result in changes in the manufacturing setup, tool selection or sequence of operations. CWDifferenceFinder can save considerable time and labor by identifying where the changes occur.



## Update Imported Geometry

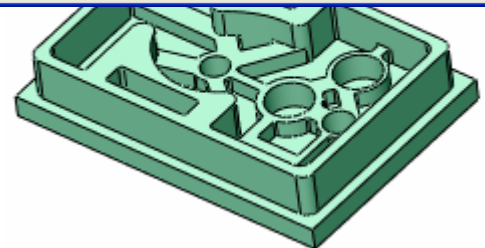
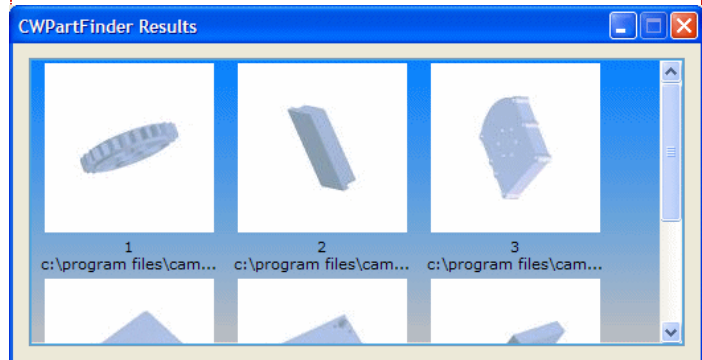
The Update Imported Geometry command on the CW 2007 Utilities menu allows CAM data generated on imported solid models to be updated to new revisions of the solid model. Simply select the Reference model with CAM data and the Modified model, then click Update. The Reference model is replaced by the Modified model and the CAMWorks performs a rebuild.

## CWPartFinder

CWPartFinder is a completely automated geometric 3D shape-based encoding and search library that helps you quickly identify and retrieve previously designed similar products.

CWPartFinder is a comprehensive solution to:

- Reduce the time to market by locating a part based on shape and re-using the geometry with minor changes.
- Shorten your customer response time for quotes by locating similar parts based on shape and retrieving information for reuse.
- Eliminate storage of duplicate parts.

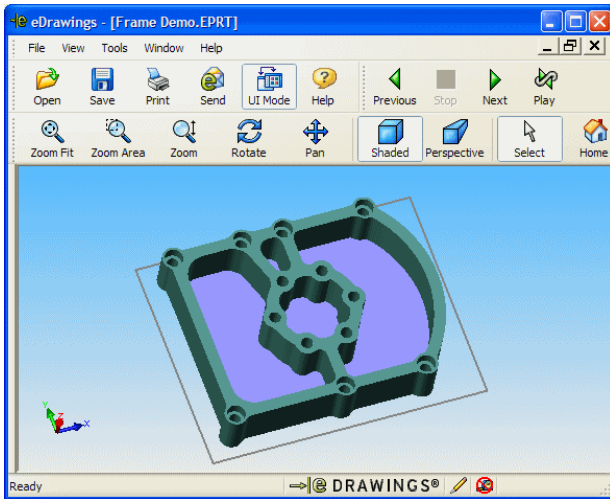


Features:

- Shape/geometry base indexing and search of 3D CAD data
- Independent of CAD formats
- Supports automatic indexing
- Preview of indexed parts and results
- User defined search preferences and display of results
- Search for part clusters using standard part keywords

## eDrawings

eDrawings is the standard in 3D collaboration that facilitates the sharing of 2D and 3D product design data. eDrawings provides innovative capabilities that eliminate common communication barriers and speed the design review process. Unlike CAD files, eDrawings files are compact and easy to email. eDrawings gives you and your extended team the tools necessary to visualize, interpret and collaborate with 2D and 3D product design data.



eDrawings facilitates the markup of 3D models without additional viewers, installations or time-consuming file transfers. The recipient just clicks on the eDrawings file, then can zoom, pan, rotate, animate and redline the design. With eDrawings, you can streamline your entire approval process, internally and externally.

In addition to improved communication between the design team, eDrawings can provide clarification of requested design changes from manufacturing for more efficient and cost-effective machining. Information to suppliers who are involved in the manufacturing process can be more easily communicated with eDrawings. eDrawings can also supplement the information sent to the shop floor.

### Features:

- Share product designs more easily and speed product design reviews
- View, mark up, measure and review-enable eDrawings files
- Enable collaboration between design team, manufacturers and suppliers
- Receive feedback on product design data from an unlimited number of recipients
- Manage, track and merge comments from multiple reviewers.
- Password protection

## CWFeatureFinder

CWFeatureFinder applies intelligence to static geometric data and makes it ready to use in SolidWorks and CAMWorks. CWFeatureFinder recognizes features on a solid body that has been imported into SolidWorks from files produced by standard translators such as STEP, IGES®, SAT (ACIS®), VDAFS (VDA) and Parasolid®.

Recognized features are the same as features that you create using SolidWorks and are fully editable and associative. Once feature recognition is complete, you can easily fine-tune the design and then machine the part in CAMWorks.

CWFeatureFinder recognizes all these features:

- Extrusion features such as bosses and cuts of the following sketch entities: lines, circles, and circular arcs
- Revolved features that are conical or cylindrical
- Any standard hole types, such as simple, tapered, and counterbored
- Sheet metal features including edge flange, sketch and bend, and base features
- Random sketch patterns of features on a plane
- Shell features such as uniform wall and shell inward only
- Ribs and draft features
- Constant and variable-radius fillets
- Applied features such as chamfers and fillets

CWFeatureFinder provides both automatic and interactive feature recognition capabilities. Automatic Feature Recognition requires no user intervention. In many cases, features not recognized automatically can be recognized through the interactive method. The interactive method lets you control or specify the design intent easily by selecting a face or the edges of a cut or boss. The model checker indicates any changes to underlying imported geometry before and after feature recognition. You can perform automatic recognition before or after interactive recognition.



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For more information on CAMWorks Utilities, call your local CAMWorks reseller.

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