camworks powered by SolidWorks

Wire EDM

Intuitive, Automatic, Efficient

CAMWorks Wire EDM has been designed and developed specifically for Wire EDM processing - unlike most CAM systems that use modified milling commands for their EDM programming modules. The result is CAMWorks provides a more intuitive, automatic, and efficient method of generating EDM toolpaths and machine code.

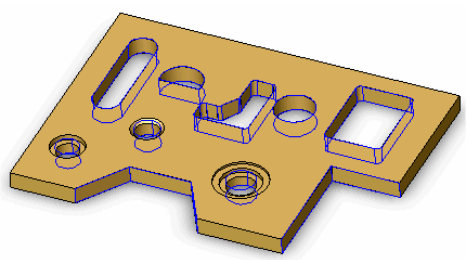
For example:

- The 2.5 Axis and 4 Axis cutting operations automate the creation of rough, skim and tab cuts.
- Options are provided to order the cuts when machining parts with multiple pocket (die) areas.
- Numerous processing order options allow the user to automatically change the order with a single command.
- Machine code output can be changed for a different machine by simply selecting a different machine make and model.
- Cutting conditions for the new machine are automatically changed as needed.

Automatic Feature Recognition

CAMWorks is a feature-based machining CAM system that provides the ability to automatically recognize Die (pocket), Open Profile and Perimeter Punch machinable features for Wire EDM.

- Automatic Feature Recognition (AFR) analyzes the part shape and attempts to define the most common machinable features.
- AFR recognizes features on native SolidWorks part models or on solid parts imported via IGES, SAT, etc.
- AFR can save considerable time when defining machinable features.

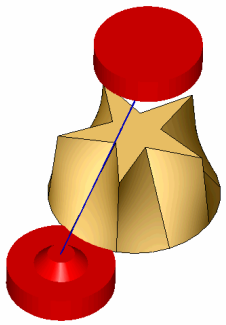


Interactive EDM Features

Interactive 2.5 and 4 Axis Feature wizards are used to define features that are not recognized automatically or features that need to be defined for your facility's machining requirements. Die (pocket), Punch (boss), Open Profile and Punch Perimeter features can be defined interactively.

Interactive feature definition is similar to SolidWorks feature definition. Multiple sketches, faces, loops and edges can be selected to define the feature.

- The 2.5 Axis EDM Feature command allows you to define 2 Axis and 2 Axis with constant taper features.
- The 4 Axis EDM Feature command allows you to define 4 Axis features with an equal number of segments on top and bottom curves or with multiple shared swing points. Sync curves can be defined automatically or interactively.

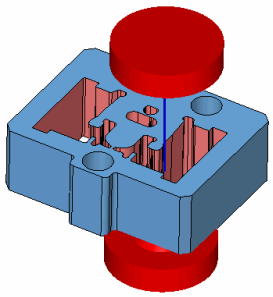


Stock Definition

EDM stock shapes can be defined as a part bounding box, an extruded sketch or an STL file.

2 Axis and 4 Axis Contour Cycles

- 2 Axis Contour operations automatically generate rough, tab and skim cuts on 2.5 Axis features. Typically, this cycle would be used to cut a punch or die cavity.
- 4 Axis Contour operations automatically generate rough, tab and skim cuts on 4 Axis features.
- Core roughing.
- Automatically generate land and taper toolpaths.
- Multiple skim passes: reverse or same direction.
- Multiple entry points for operations machining multiple features.
- Graphically set the XY position for the leadin and leadout point.
- Automatic glue stop option.
- Numerous leadin and leadout methods for approaching and retracting from the part.
- Edit cutting conditions for the current operation and optionally save the parameters permanently in the cutting conditions database.
- Processing order option to optimize wire threading.



Cutting Conditions Database

Optional cutting conditions database is associated to the post processor for the current machine make and model. The default data is based on information from the machine tool manufacturer and can be modified.

Simulation

- Simulate the machining order showing the wire and wire guides.
- Simulated shapes can be saved as STL files that can be used as stock shapes for other machining operations.

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