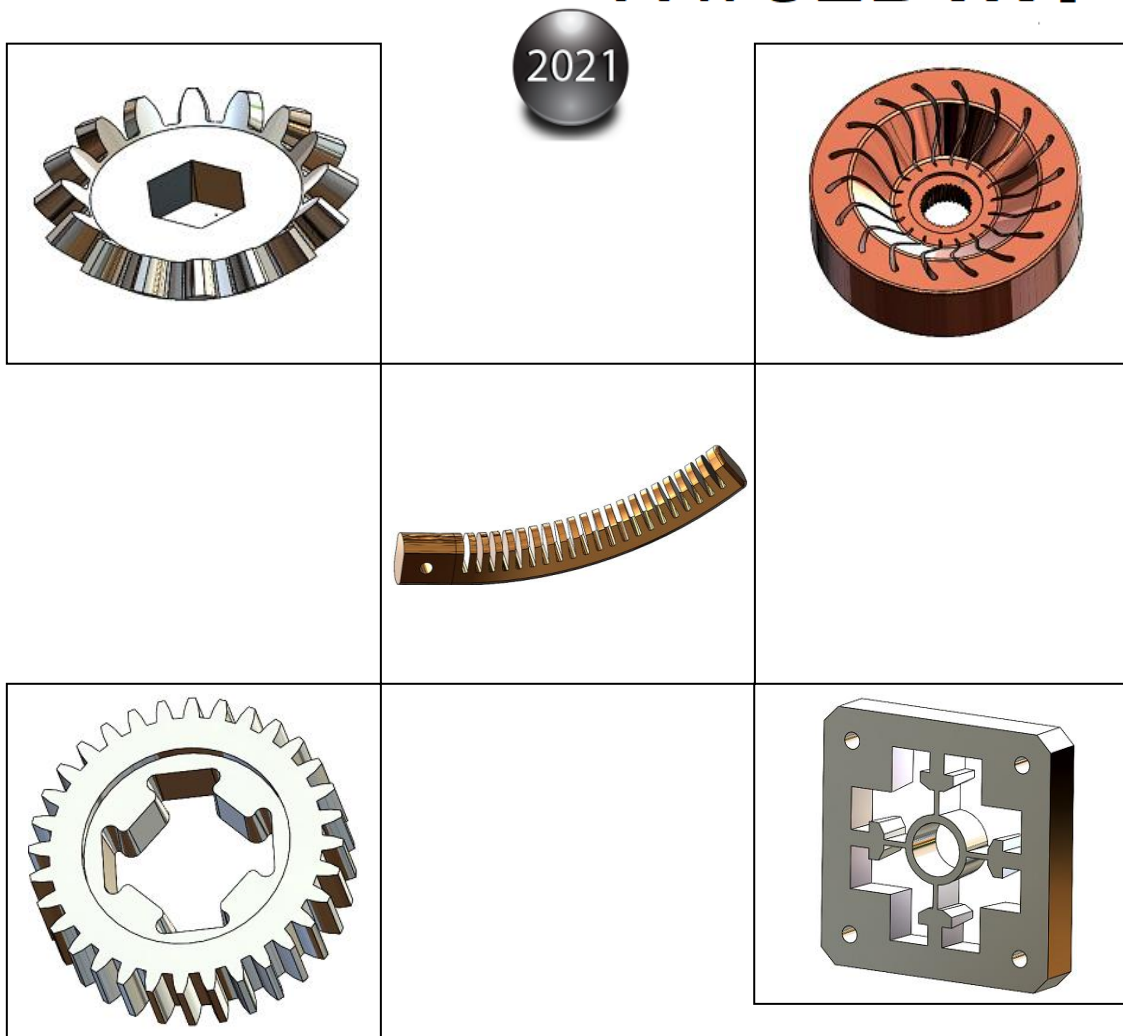


Product Info for

CAMWorks WireEDM Pro



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Product Information for CAMWorks WireEDM Pro

What is CAMWorks WireEDM Pro?

CAMWorks WireEDM Pro is a newly introduced application in the CAMWorks suite of software products offered by *Geometric Americas, Inc.*

Use this application to apply the cutting technology of your Wire EDM machine to the geometry of the solid model to be machined. The advanced algorithms present within this application will then generate the best possible G-code for machining the selected part models.

Who are the Intended Users for CAMWorks WireEDM Pro App?

CAMWorks WireEDM Pro is an ideal choice for firms that specialize in machining solid part models using WireEDM CAM technology.

Why use CAMWorks WireEDM Pro?

The **CAMWorks WireEDM Pro** application is the result of over 30 years of research and specialization in the field of *WireEDM CAM* technology. It is designed in such a way that you can literally exploit the latest cutting-edge technologies and improvements in the field of Wire EDM tech to full potential! Refer the Salient Features section of this document for details on why the *CAMWorks WireEDM Pro* application is the one-stop solution for all your *WireEDM CAM* technology needs.



Salient Features of Wire EDM

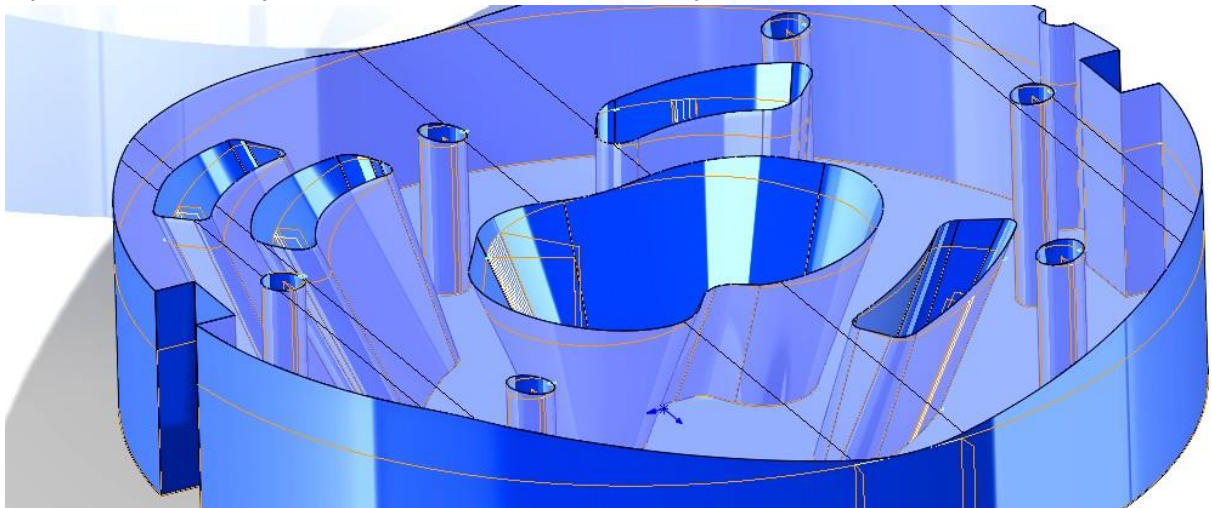
1. Automatic Solid to G-Code in a Single Mouse Click!

CAMWorks WireEDM Pro is seamlessly integrated with SOLIDWORKS/CAMWorks Solids and is designed to automatically analyze a selected solid model, generate a machining plan for all its features (2 Axis, 2 Axis Taper, 4 Axis) and then post the G-Code with a single mouse click!

2. Automatic Feature Recognition Technology

The *Automatic Feature Recognition* functionality has evolved to recognize EDM features such as 2 Axis, 2 Axis with taper and both synchronized and unsynchronized 4 axis features present on a solid model. This highly advanced functionality virtually eliminates the requirement of several 2D sketches for defining the top and bottom cuts. Even the requirement for presence of a planar surface is a thing of the past.

Additionally, the ability to automatically program from a 2D wire frame still exists. This option gives you control when you need it and saves time when you do not.



3. Accurate Post Processing

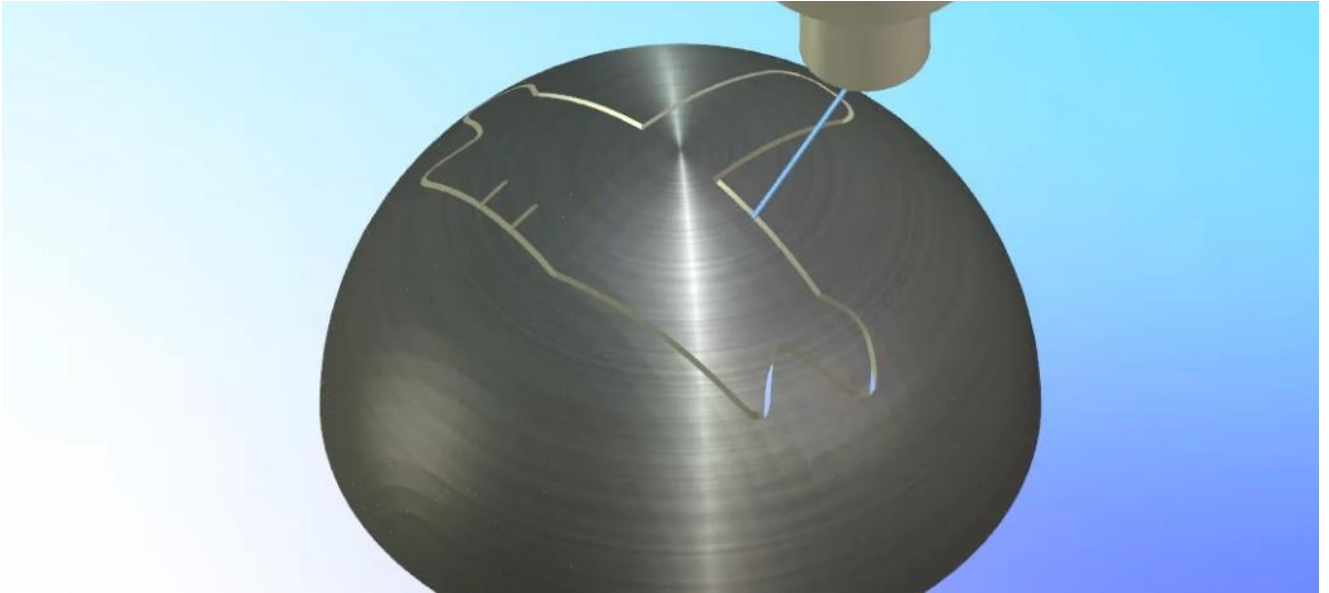
The Post processors shipped with the *CAMWorks WireEDM Pro* application are the result of years of continuous collaboration with machine experts, thereby ensuring that the G-code generated using these post processors is as machine ready as possible.

4. Customized Post Processing

The default post processors shipped with the *CAMWorks WireEDM Pro* application will accommodate most of your WireEDM machining needs. However, for specific situations where formatting may mandate changes, Geometric Americas, Inc. also offers customization services for post processors. Such customized post processors ensure that the G-code generated using the *CAMWorks WireEDM Pro* application will be a perfect match for running on the intended Wire EDM machines.

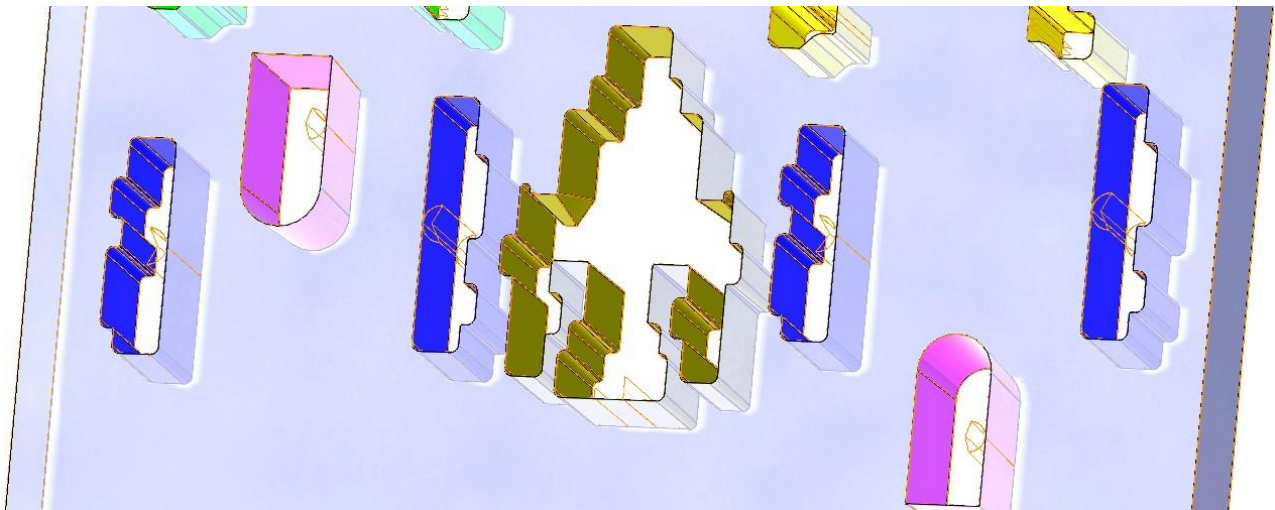
5. Powerful Simulation

CAMWorks WireEDM Pro also features powerful simulation powered by **Predator Virtual CNC**. This feature allows you to verify toolpath accuracy, potential collisions, and machining order before taking the G-code to the Wire EDM machine. Streamline your design and planning process with this powerful aid for simulating WIP models.



6. Intuitive User Interface with Customization Options

The color-coded strategies available within the *CAMWorks WireEDM Pro* user interface allow you to customize your machining processes and user technology. Apply the corresponding color and *CAMWorks WireEDM Pro* will identify the strategy or surface finish and apply it to the colored features, thereby minimizing verification time required for error checks.



Sample Image of Colored Features within the CAMWorks WireEDM Pro User Interface

7. Support for AgieVision and HMI2 Posting

CAMWorks WireEDM Pro fully supports **Agie Vision** and **HMI2** posting. *CAMWorks WireEDM Pro* can take you from the solid model to generating toolpath and then to automatically loading all the incorporated files straight onto the **Agie Vision** control with one single click. *CAMWorks WireEDM Pro* application's support of **GF** machines is so complete that it is the first CAM system to receive an endorsement by the manufacturer itself.



8. Cutting Conditions Database

The knowledge-based machining technology, tooling details, cutting conditions and operation defaults saved in the Technology Database are used to generate machining operations and toolpaths automatically. Such a repository ensures uniformity and quality in the generated toolpaths.

The intelligence behind the machining automation in **CAMWorks WireEDM Pro** application is a database of Cutting Conditions. This database is shipped with data that is considered generally applicable to most WireEDM machining environments. It enables computation of toolpaths based on standard or customized cutting conditions defined in the database. The finish and tolerance can be assigned, edited and simulated before generating the G-code. This allows you to save time while using your WireEDM machine to its full potential.

9. List of Features/Functionalities in CAMWorks Wire EDM Pro

- [Automatic Solid to G-Code in one mouse click](#)
- [Automatic Feature Recognition](#) of 2 Axis, 2 Axis Taper, and 4 Axis Features on the solid model
- [Full Agie Vision and HMI2 support, and Agie Vision integration](#)
- Automatic / Manual adjustment of Feature Level Control
- Automatic / Manual Glue Stops, up to 8 stops per shape
- Automatic calculation of Lead-ins and Lead-outs
- Automatic calculation of start holes
- Automatic Wire Threading support
- Automatic / Manual Land and Taper Function (Part & Feature levels)
- Automatic Start Holes from solid model
- Output of Start Hole Program for EDM hole making machine or CNC Mill
- Definable Corner Types
- Definable number of Skim Passes up to 12
- Definable Work Plane and Program Plane
- Definable feature level automation
- Definable Post Attributes for each Feature
- Definable Stop Types
- Stock or Feature Machining Height
- Sub-routine support
- Independent Post Processing Order options for Punch and Die
- User Comments
- Display posted output in Edit Dialog
- Machine manufacturer-based Cutting Conditions Database
- [Cutting Conditions Database](#)



Supported Platforms for CAMWorks WireEDM Pro 2021

Supported Platforms for 64-bit	
Solid Modeler:	The 64-bit version of: <ul style="list-style-type: none">- SOLIDWORKS 2021- SOLIDWORKS 2020- CAMWorks Solids 2020
Operating Systems:	64-bit version of: <ul style="list-style-type: none">- Windows 10- Windows 8.1- Windows 7 (SP1 or higher) <p style="text-align: right;">[*Home Editions are not supported]</p> <p>Note: CAMWorks WireEDM Pro 2021 is supported only on 64-bit Operating systems.</p>