Manufacturing Showcase

TRIMECH

Add Your Machining Knowledge Into CAMWorks

How is CAMWorks Different?

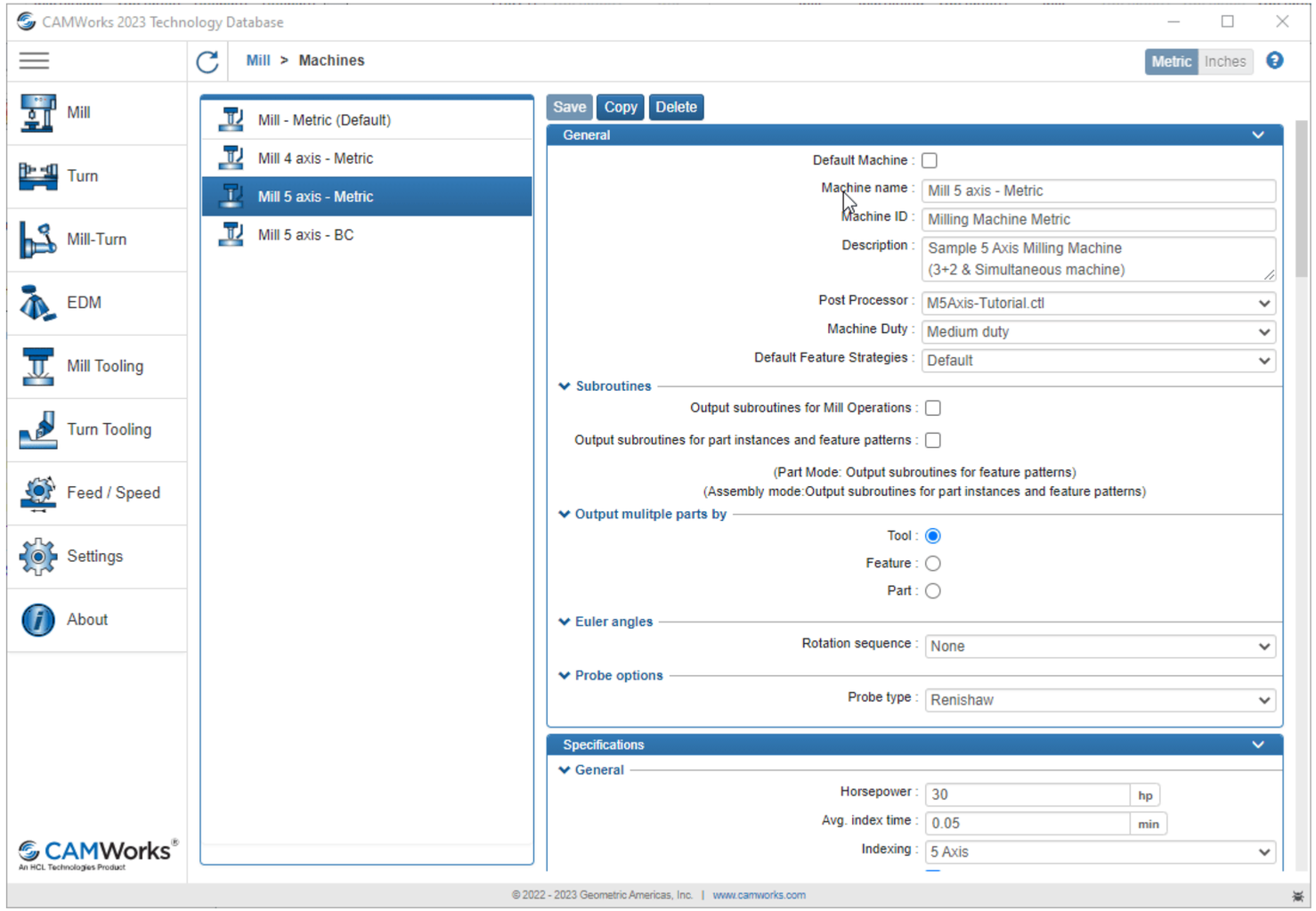
- Feature based CAM system
- Technology Database saves operation parameters, tooling, material and machines
- Toolpaths can be created automatically from Technology database and the recognised features

What's the difference between CAMWorks and SOLIDWORKS CAM?

Function	SOLIDWORKS CAM Standard*	SOLIDWORKS CAM Professional*	CAMWorks Standard	CAMWorks Milling Standard	CAMWorks Turning Standard	CAMWorks Milling Professional	CAMWorks Turning Professional	CAMWorks Premium	CAMWorks Bundle Add-Ons
2.5 Axis Milling Plus*	X	X	X	X	X	X	X	X	
Cimco Editor/DNC	X	X	X	X	X	X	X	X	
2.5 Axis VoluMill		X	X	X	X	X	X	X	
Probing		X	X	X	X	X	X	X	
4/5 Axis Indexing		X	X	X	X	X	X	X	
Turning		X	X	X	**X**	X	X	X	
3 Axis Milling – L1*		X	X	X	**X**	X	X	X	
Sub-Spindle			X	X	X	X	X	X	
Rotary Milling			X	X	X	X	X	X	
3 Axis Milling – L2*				X		X		X	
Mill-Turn					X	**X**	X	X	
3 Axis Milling – L3*						X		X	
Synchronous Machining for Lathes							X	X	X
Virtual Machine Standard							X	X	X
4 Axis Milling (Add-On to Milling Pro only)								X	X
5 Axis Simultaneous								X	

Have you setup your machine?

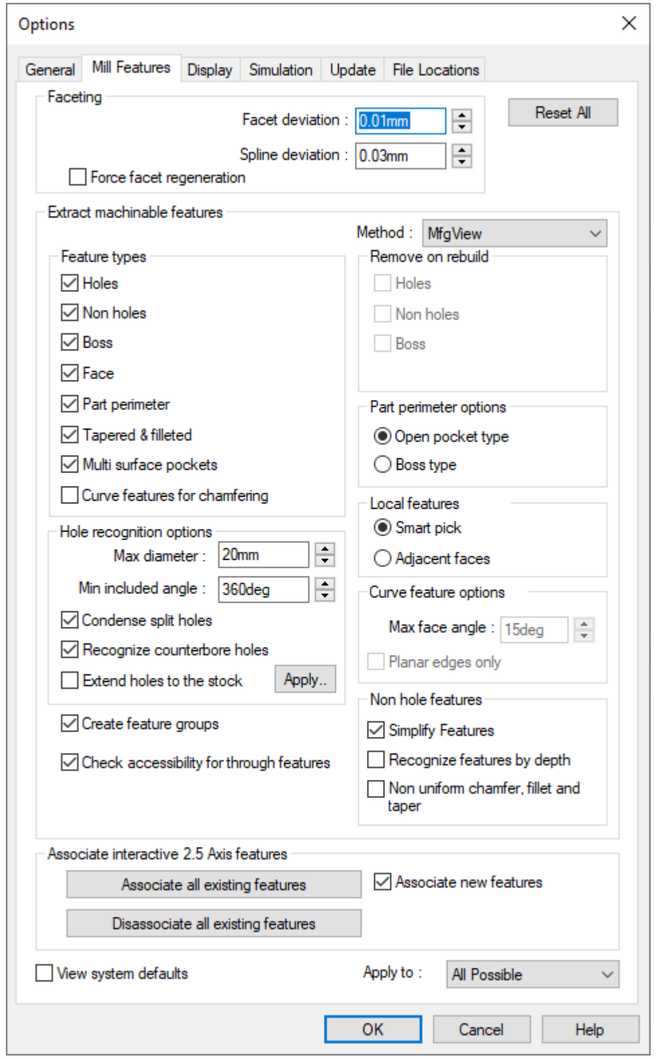
- Defined in the Technology Database
- Allows definition of Kinematic axes
- Tools used
- Post Processor
- Probing type



How can I decide what to recognise?

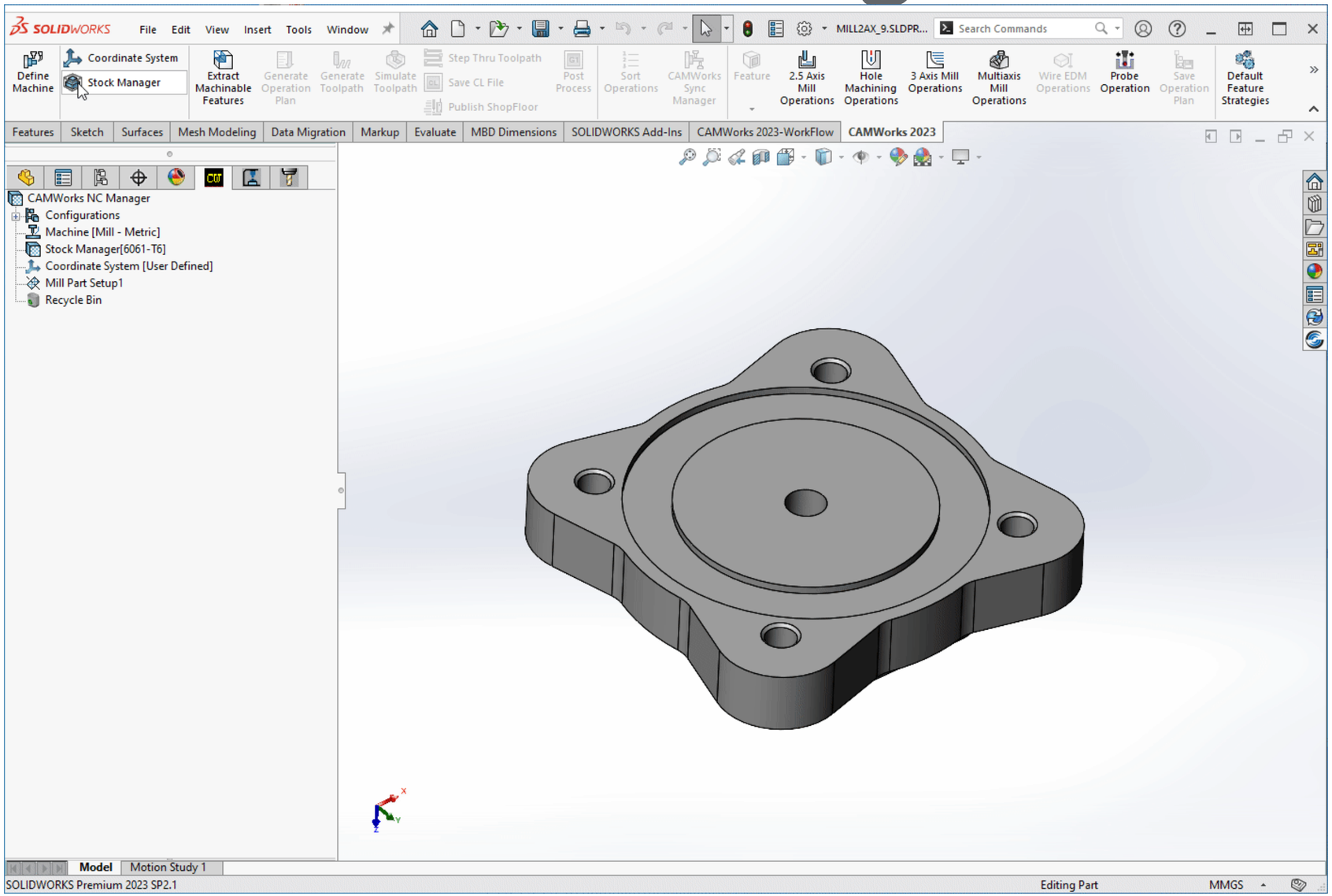
- When selecting Extract Machinable Features

- Saved in CAMWorks Options



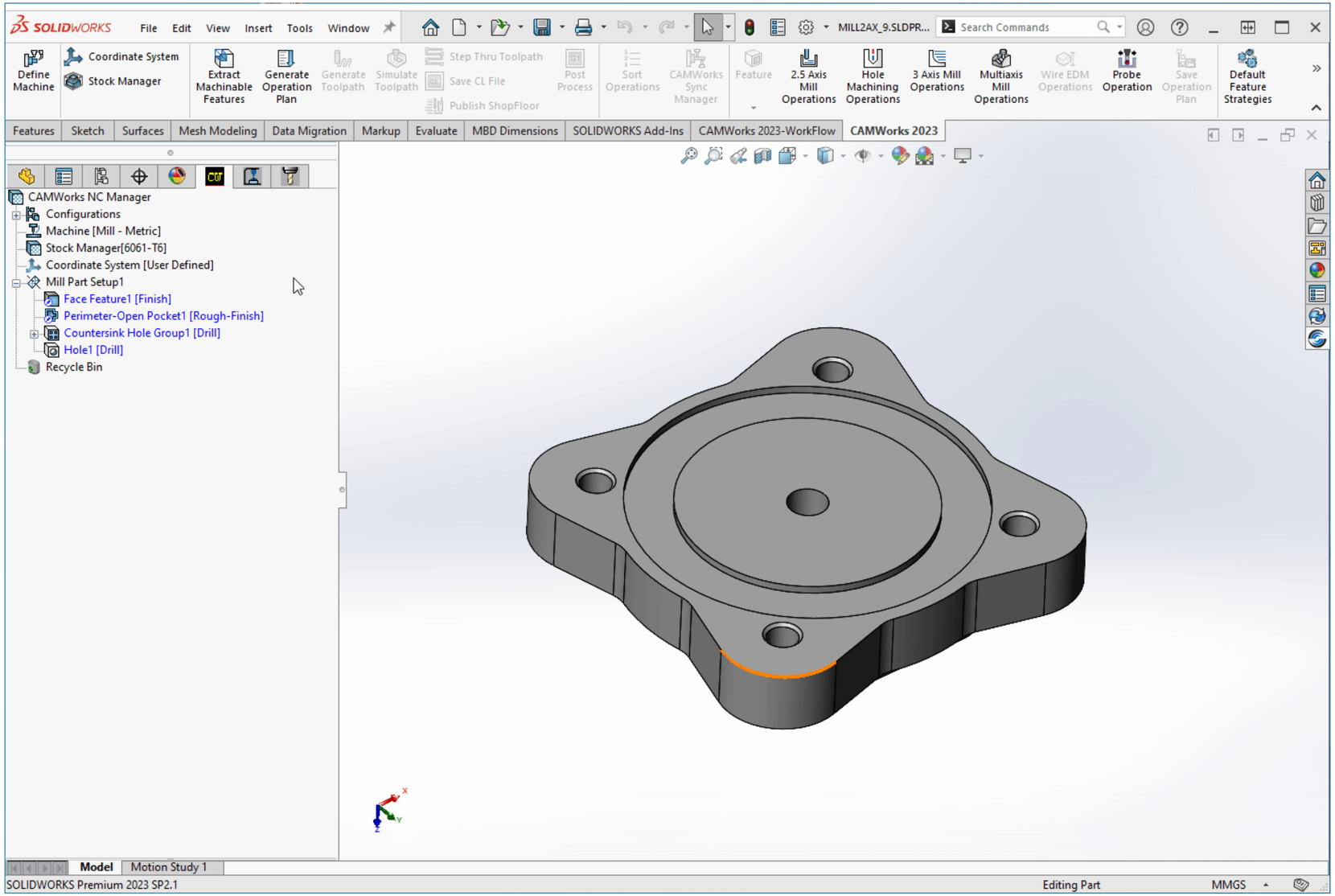
How can I decide what to recognise?

- Right click on a Mill Part Setup
- Recognise Features



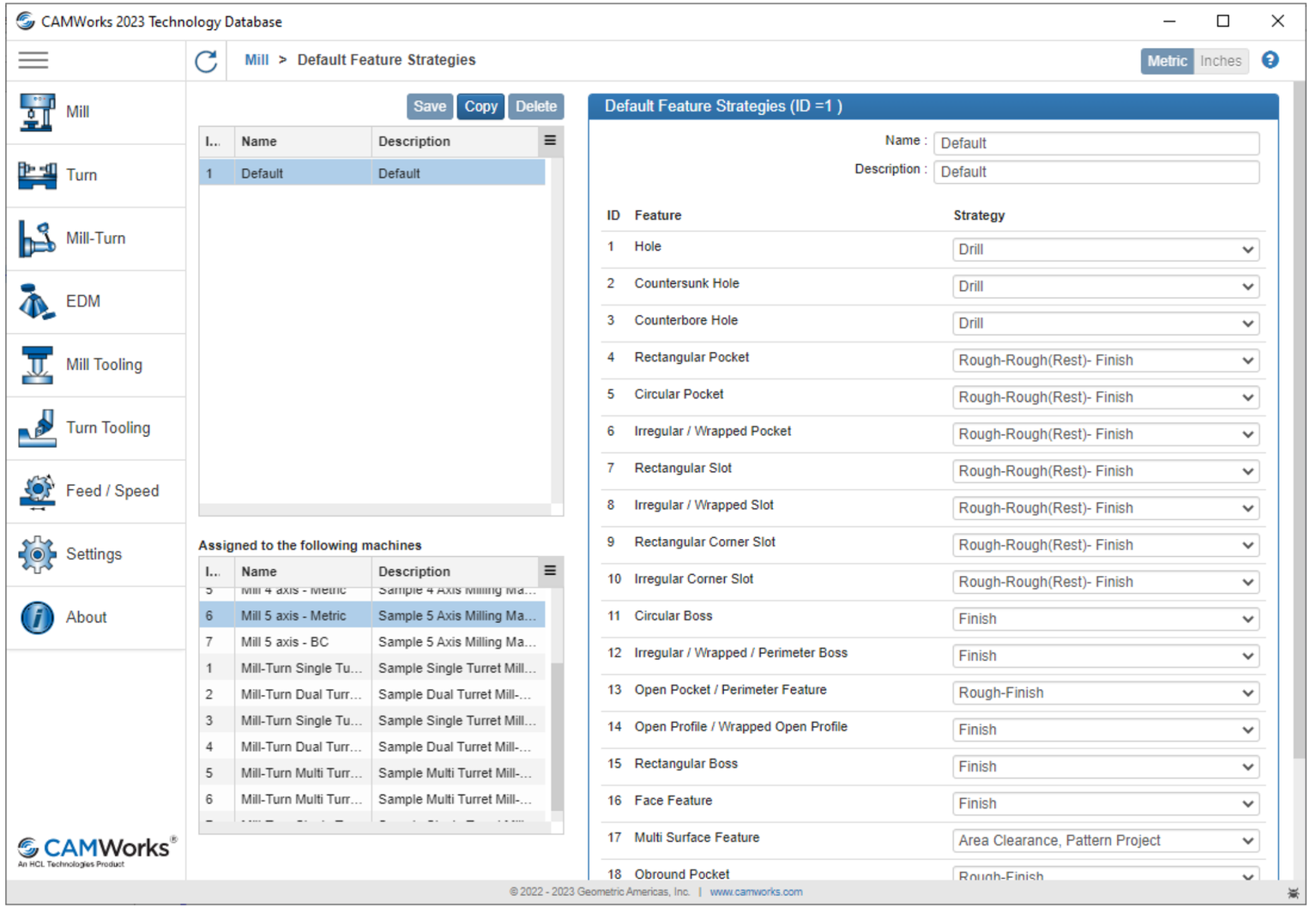
How can I decide what to recognise?

- Highlight a face
- Right click a Mill Part Setup
- Recognise local features



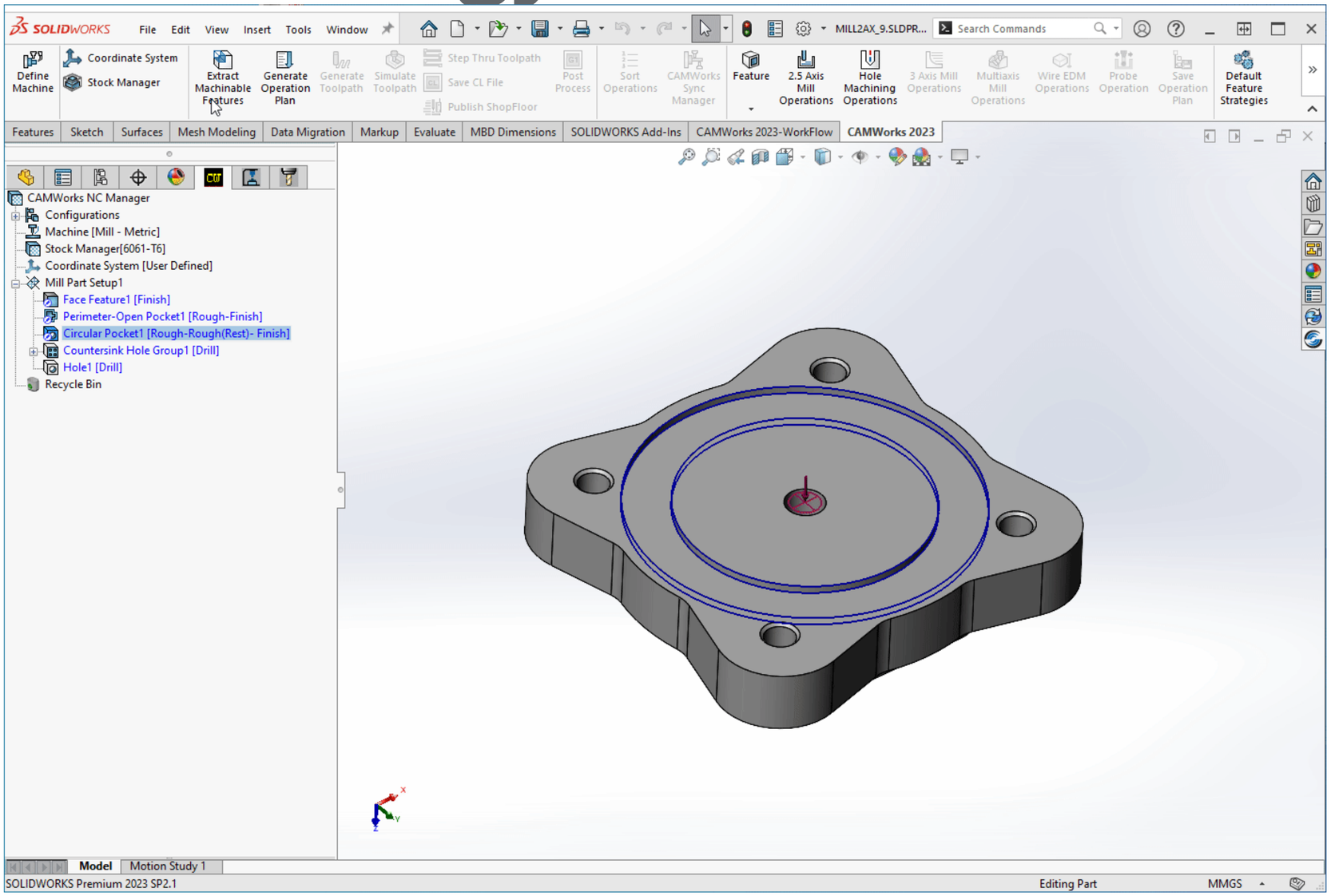
Choosing what strategy is used?

- Define default strategies in the Technology Database



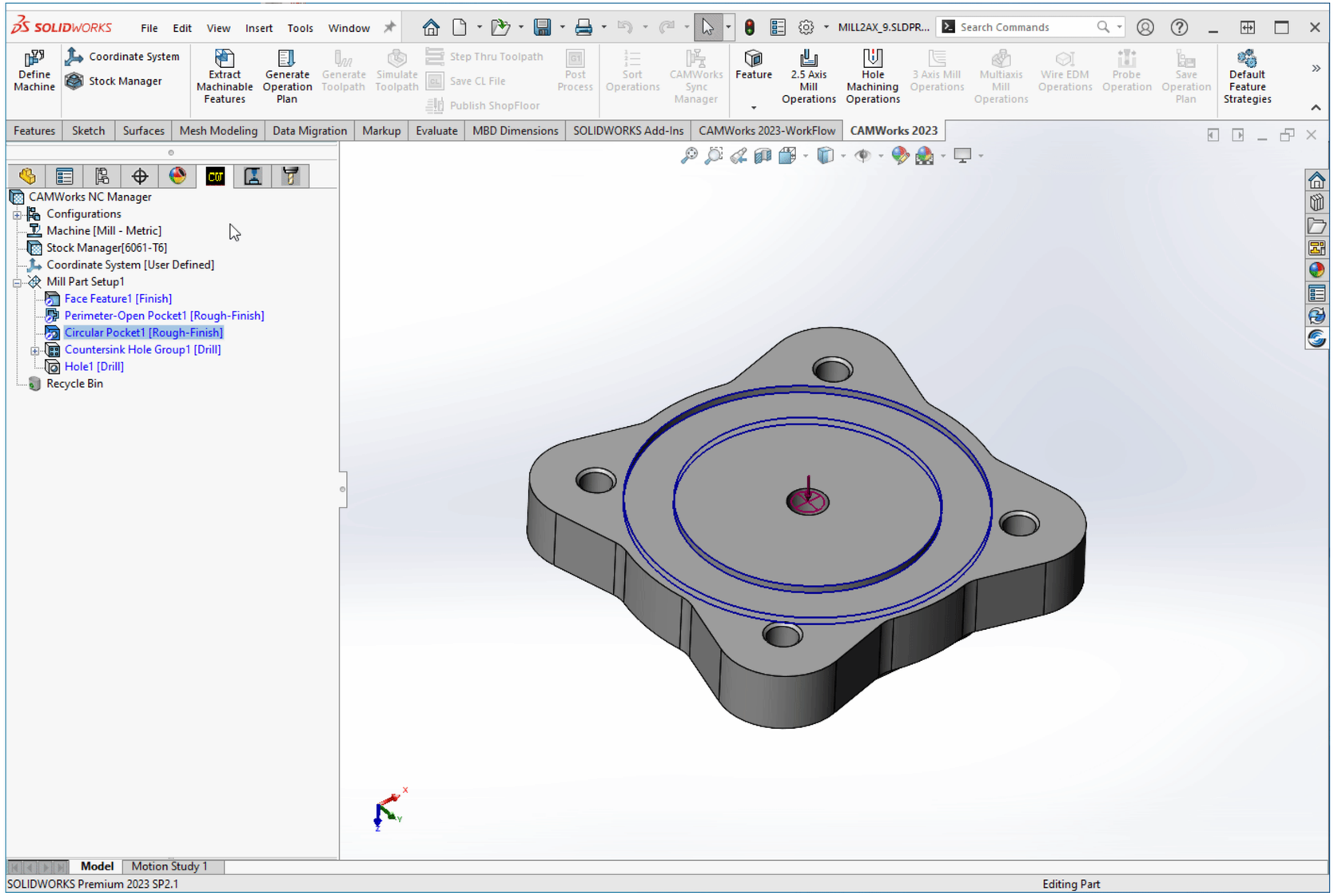
Choosing what strategy is used?

- Default Feature Strategies can be reselected for all of the same feature



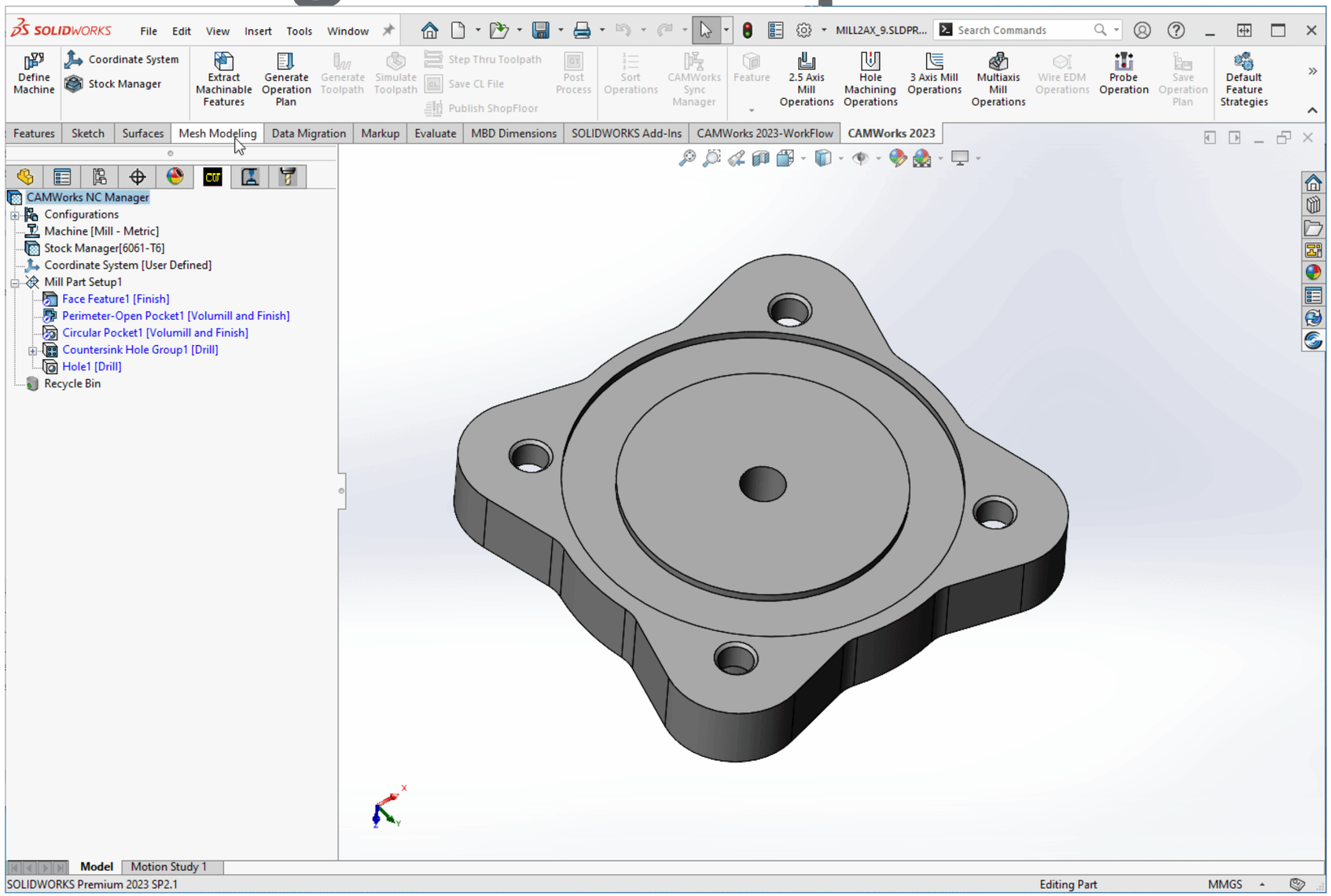
Choosing what strategy is used?

- A singular feature can be changed in its parameters.



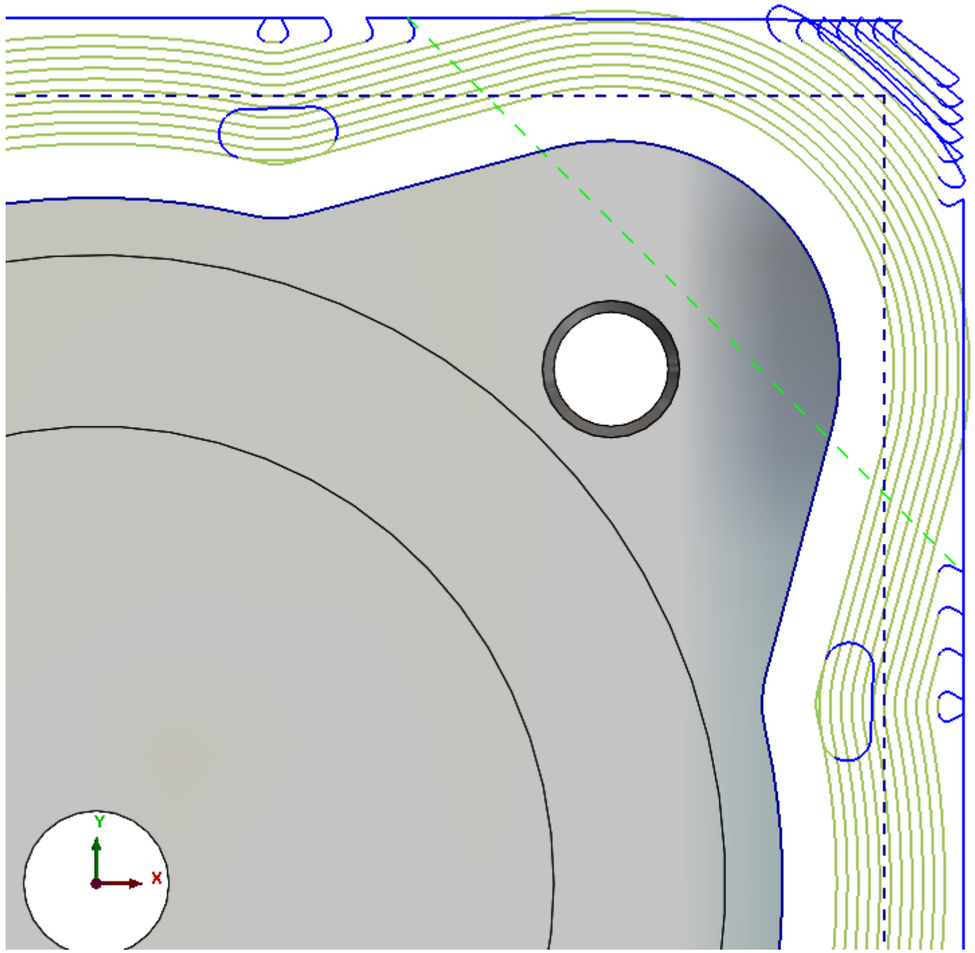
Converting Strategies to Toolpaths

- Simply select Generate Operation Plan and Generate Toolpath.



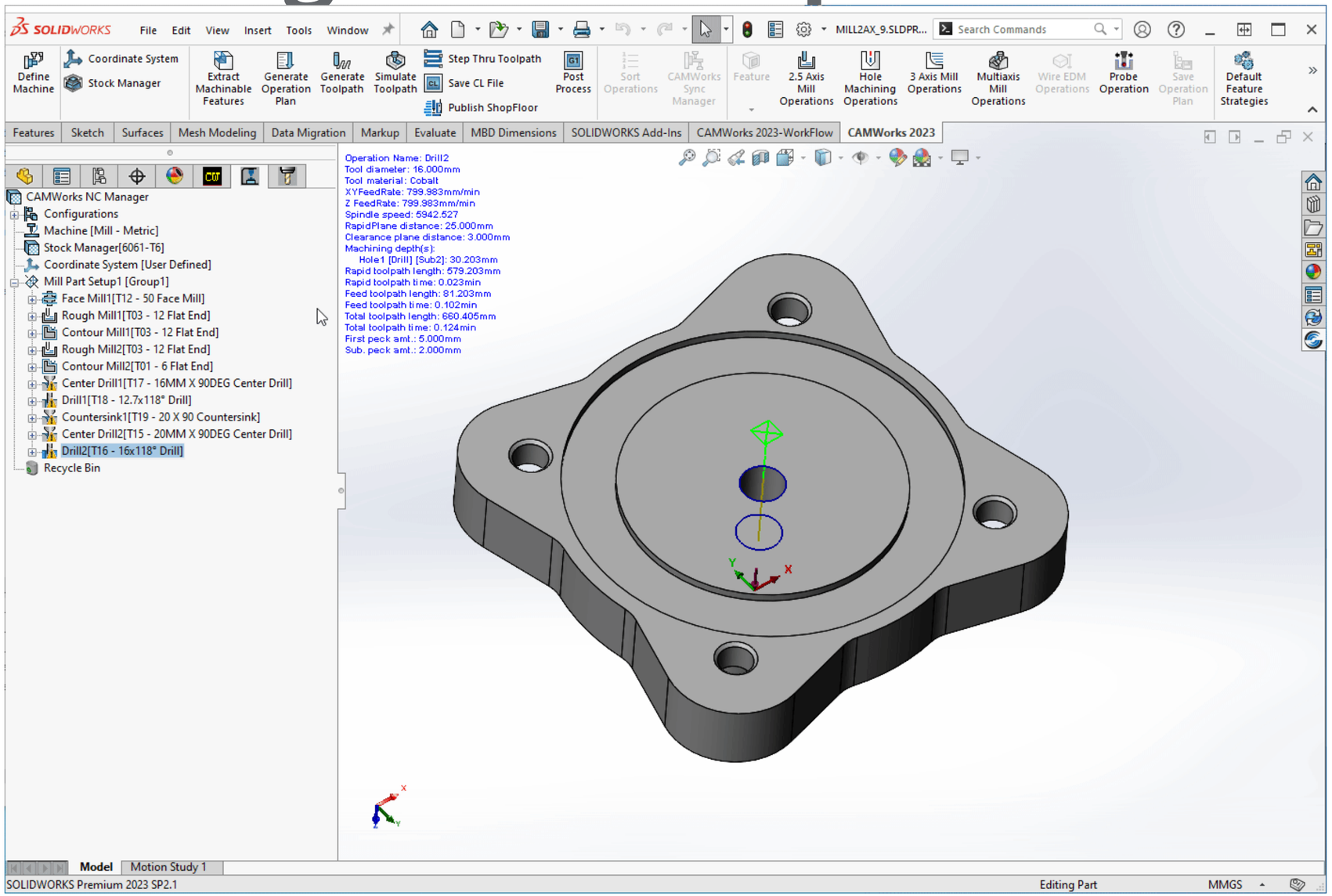
What is Volumill?

- High performance roughing toolpath
- Constant Stepover enables a constant chip thickness to be cut
- Feed and Speed Expert

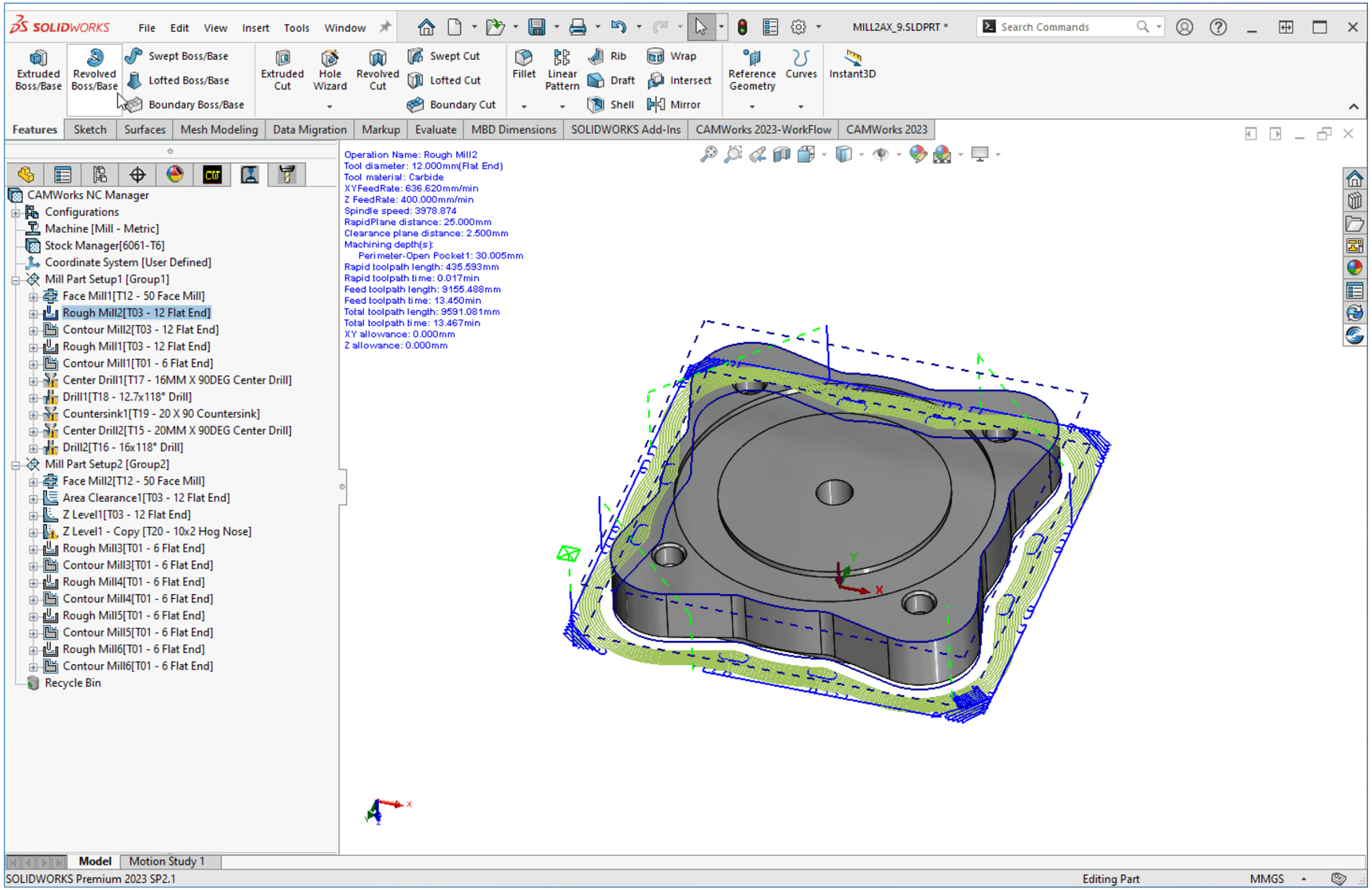


Converting Strategies to Toolpaths

- Operations can still be modified after if wished

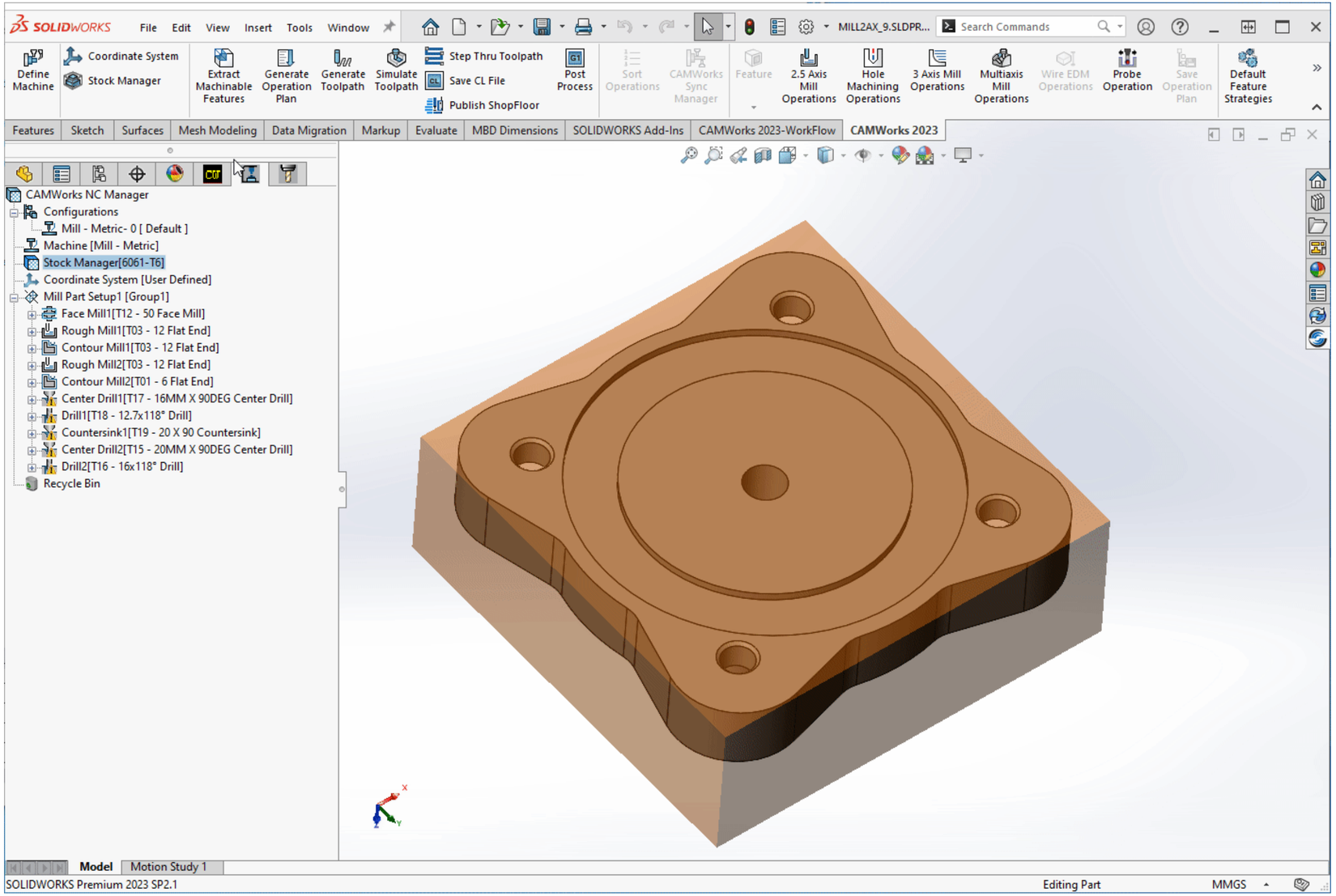


Saving back to the Technology Database



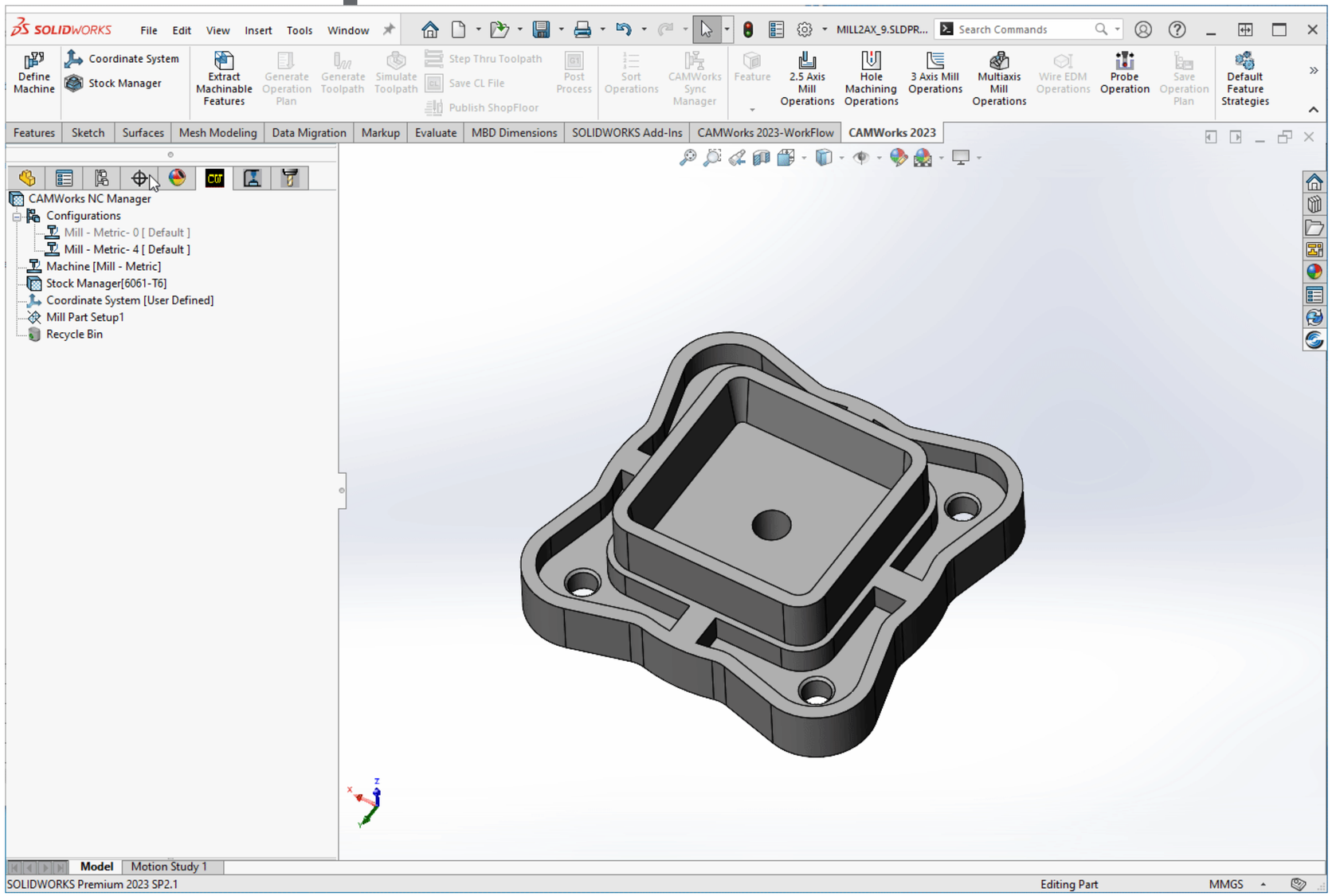
Making a second operation

- WIP Stock can be saved
- Configurations can be created



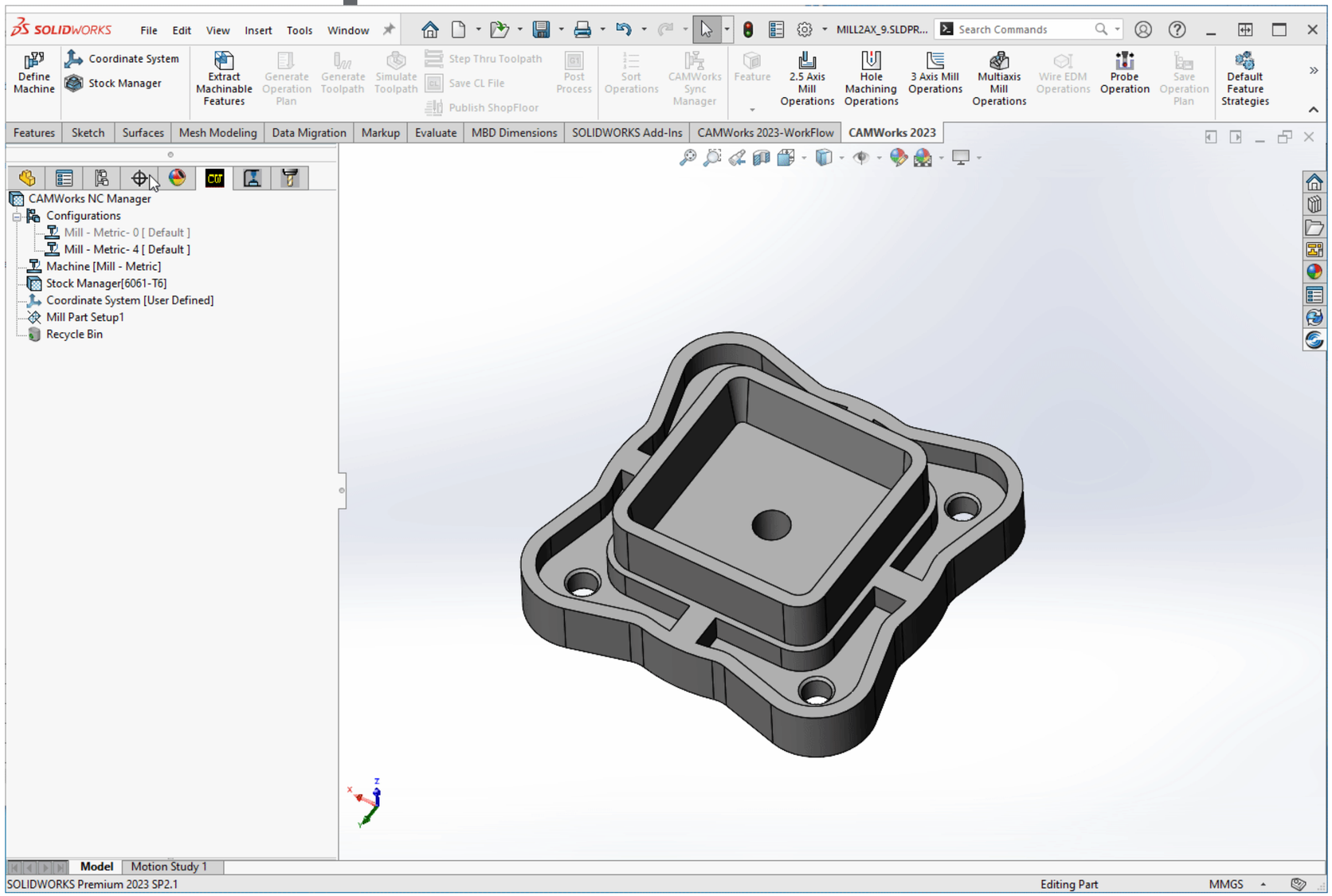
Making a second operation

- Recognise Features



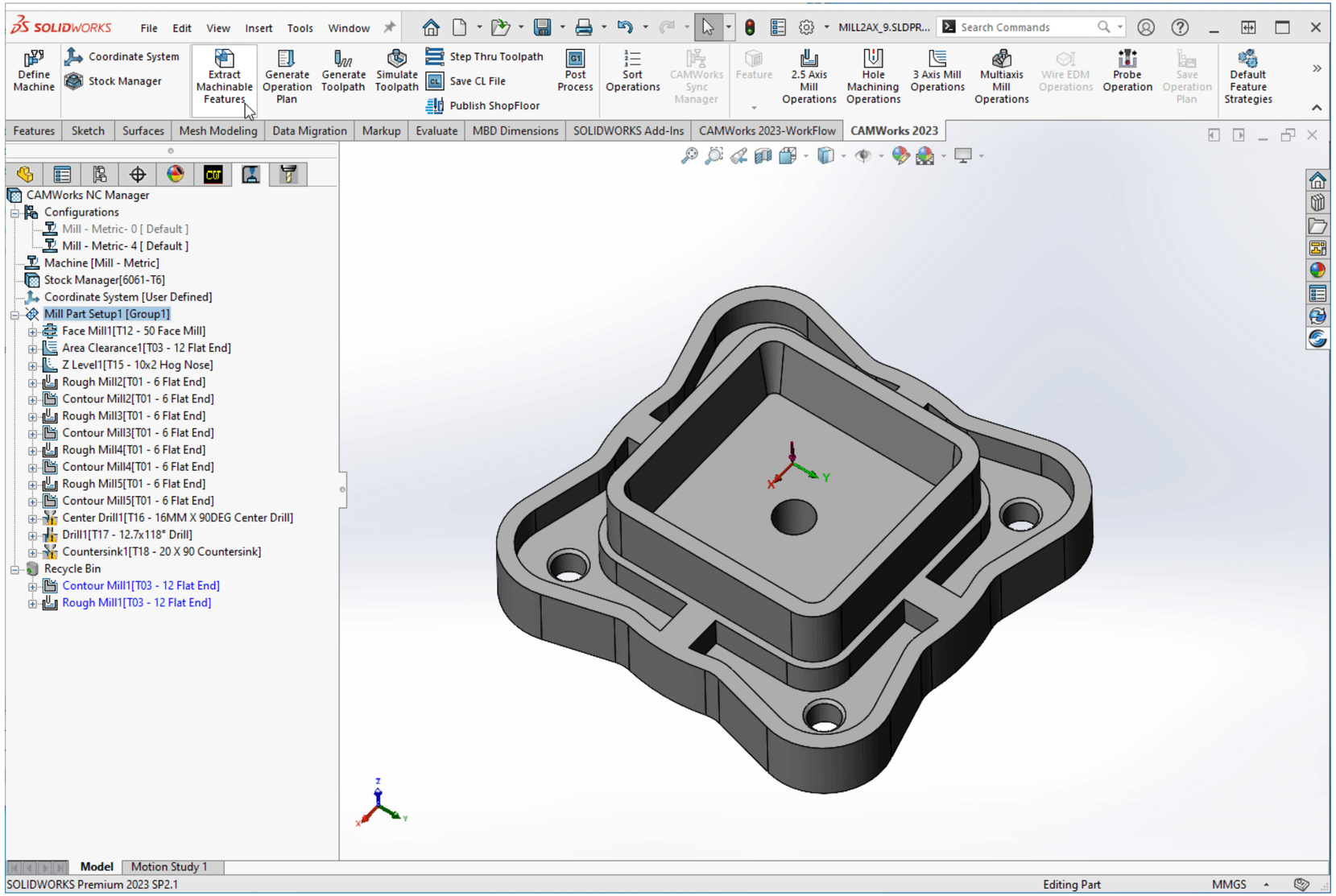
Making a second operation

- Recognise Features



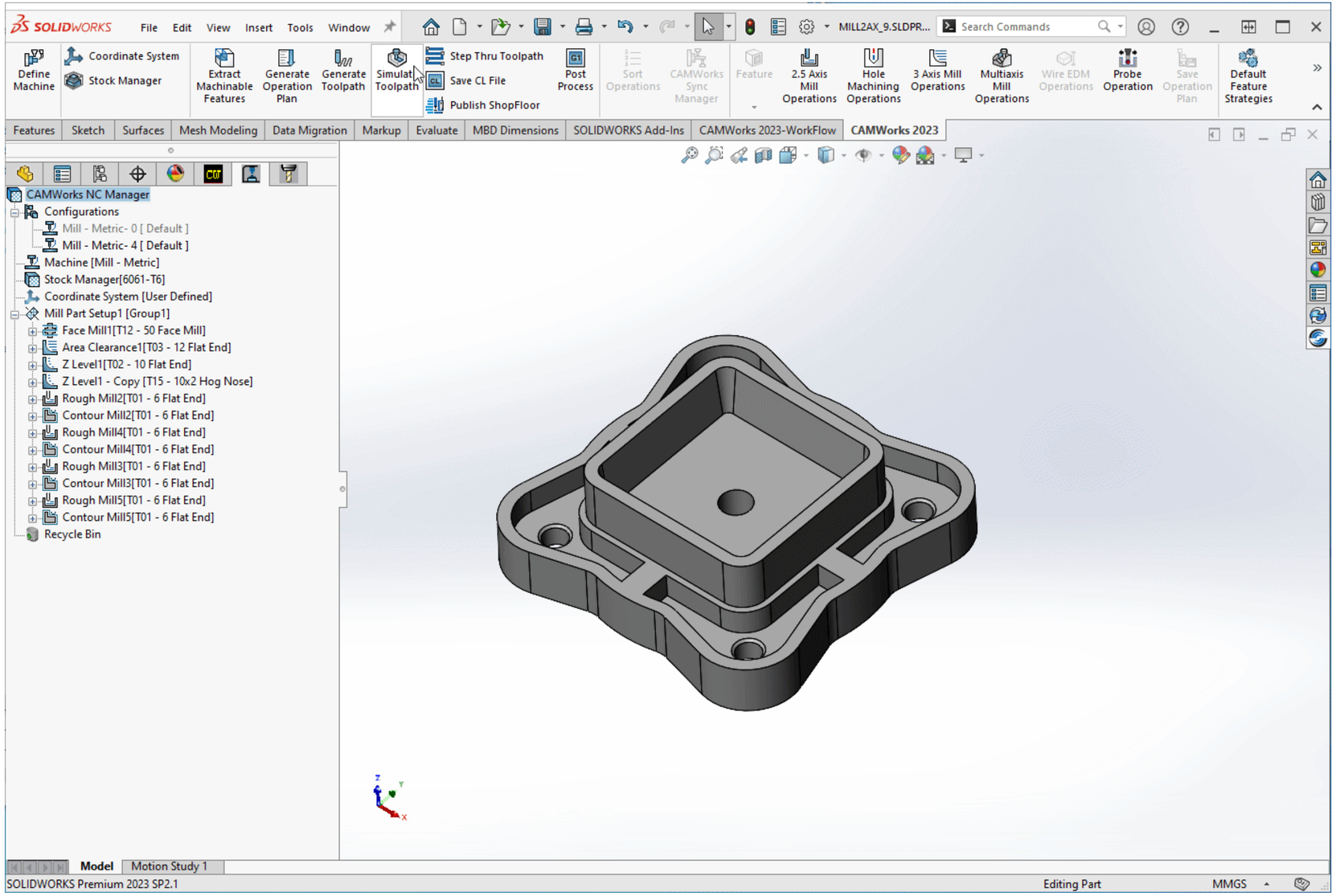
Making a second operation

- In 3 Axis Milling avoid areas can assigned to skip over unwanted areas



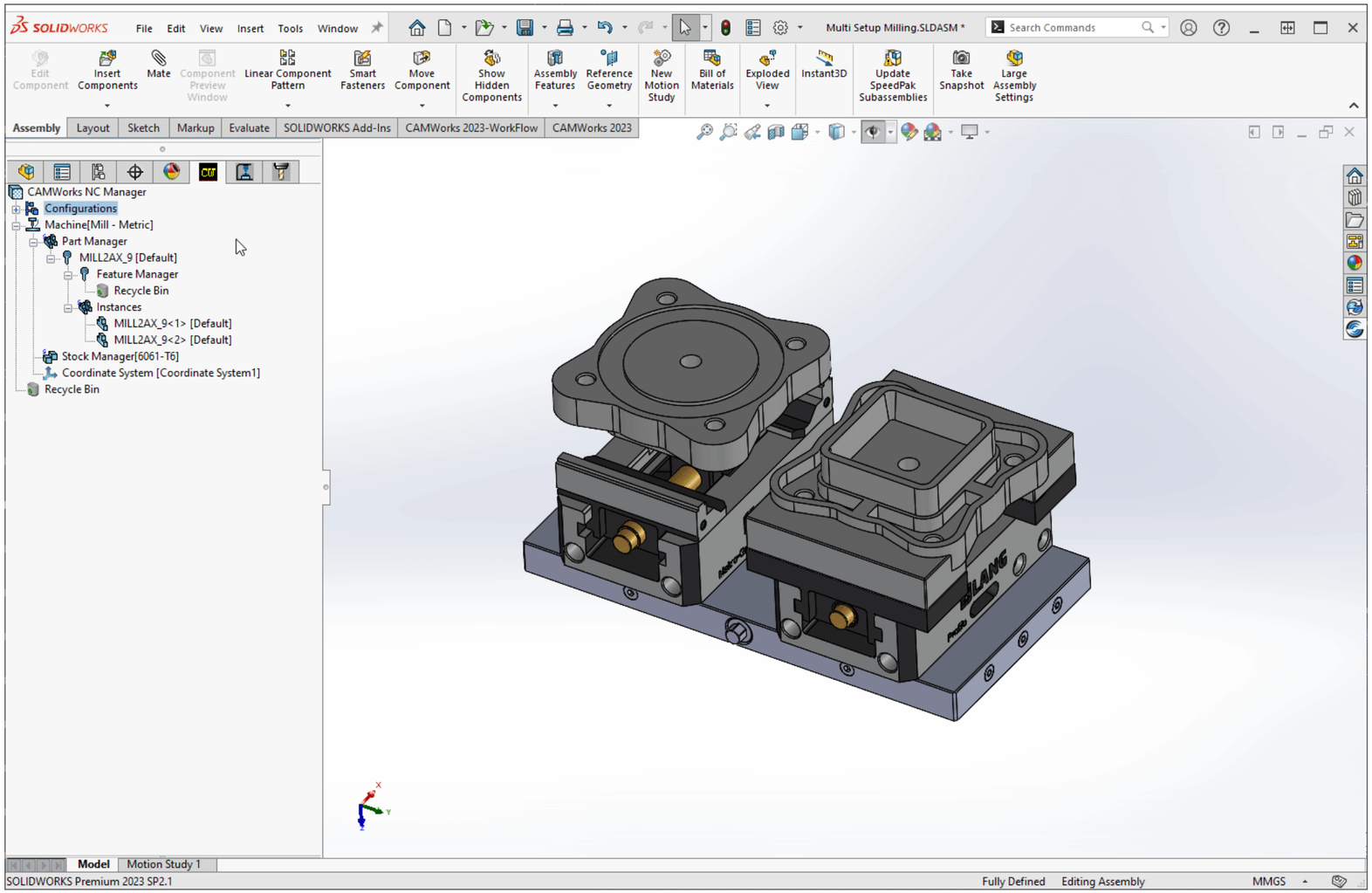
Making a second operation

- Simulating what we have programmed



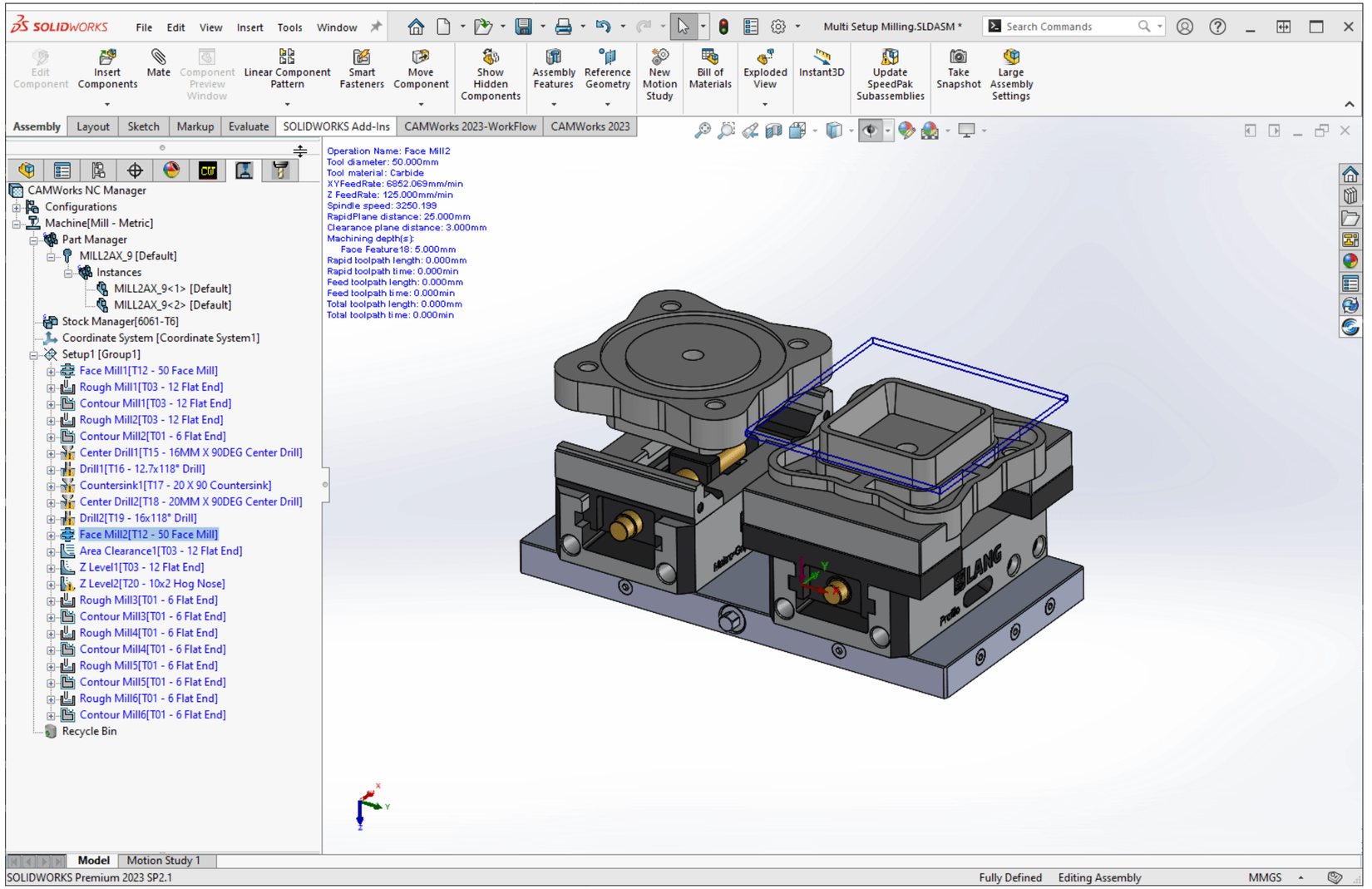
Looking at the Machining Process

- Import multiple setups with different stock
- Add previous machining data



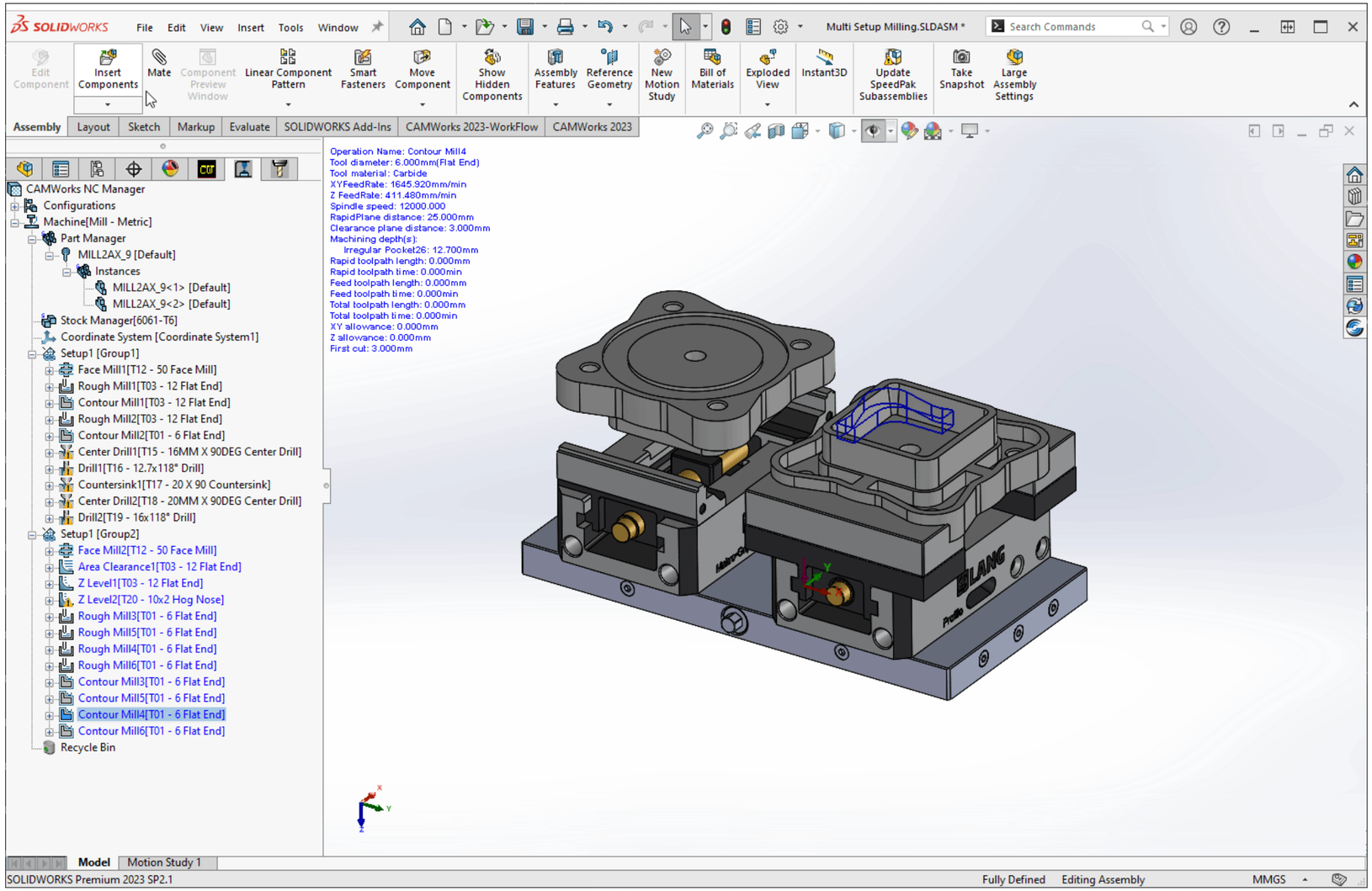
Looking at the Machining Process

- Setup Split allows for additional control
- Simplifies tree structure



Looking at the Machining Process

- Generate toolpaths to complete the setup



Let’s Review how this looks in Simulation

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Thank you for Listening