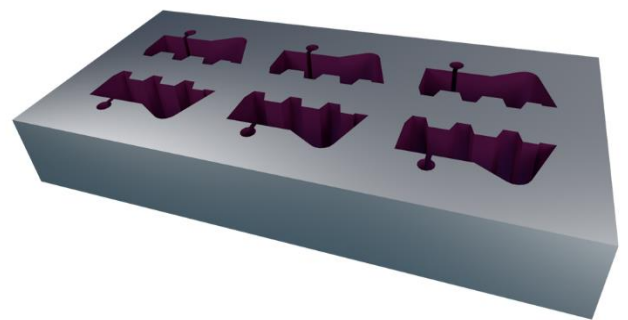


GO2cam



GO2cam V6.10

Solid Tutorial

W07 – Solid Extrusion Die


## I. Process of Solid import\_:



In the menu **File**, Left click on « Automatic Solid Import

Open file X\_T : W07\_Solid\_Extrusion\_Die.

The bottom face is normally already selected.

- Then Left click on  to validate



If it is not selected, then left click on the icon . Rotate the workpiece so that you can select the bottom face.

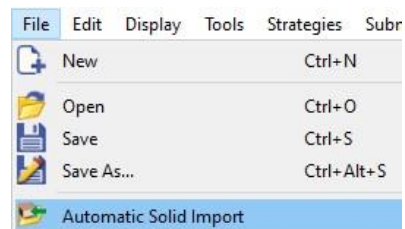
- Left click on  to select a face
- Rotate the workpiece to select the bottom face
- Then Left click on 

The next step is the definition of stock:

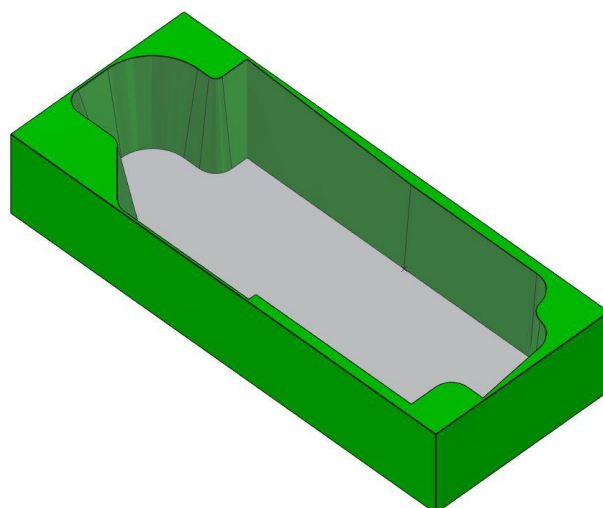
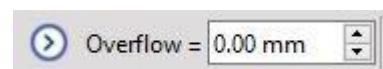
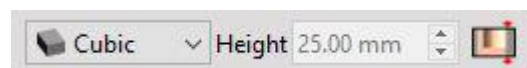
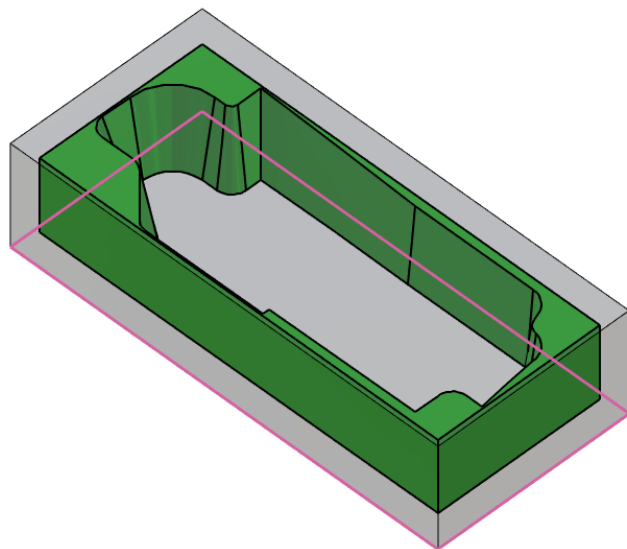
Create stock automatically relative to solids.

Note: This is a default definition of parallelepipedic stock, with a constant overflow of 0 mm around the solid.



- Left click on  to make the stock height equal to the solid height.
- Change the overflow to 0
- Left click on 

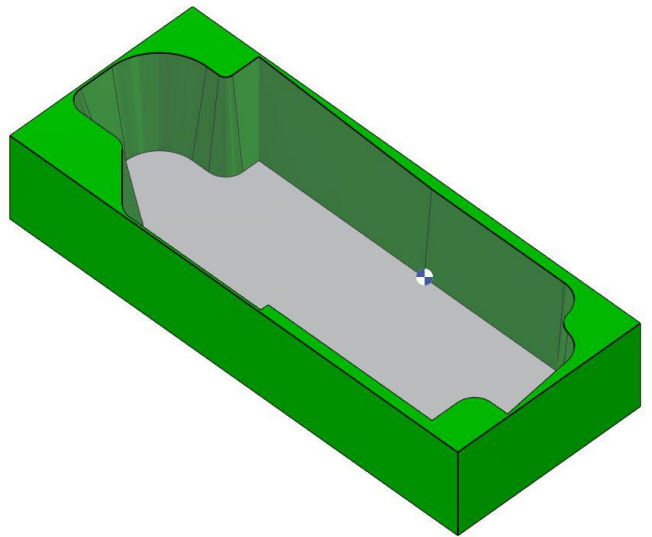


Select Support Face




The next step is to select the origin position:

- Left click on  **manual selection of origin point** and left click on the intersection between vertical edge and bottom edge.
- Left click on , solid import is complete.




## II. Create machining profile on topology :

We will create a 4-axis profile to process the taper face:

- Select the menu **EDM geometry**
- Left click on **4 axis on solid** 
- Choose **chaining of faces**
- Cutting Tolerance set to 0.01
- Left click on start face
- Left click on same face to close profile

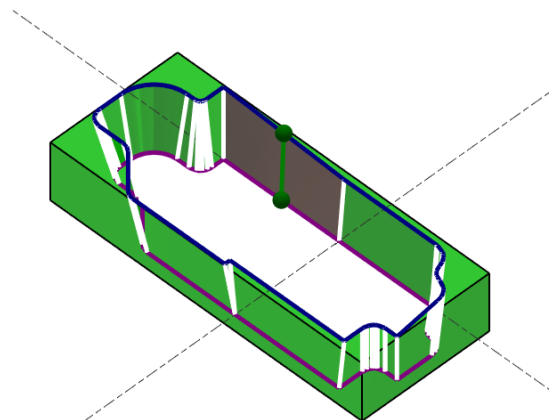
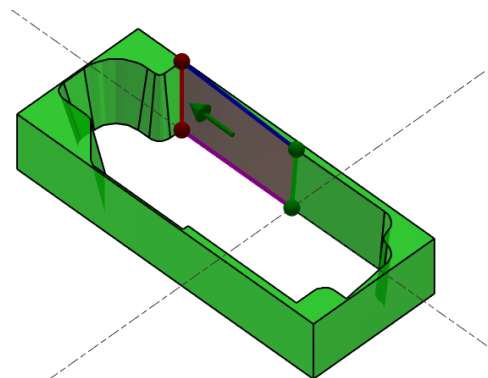
The profile is displayed in blue. We also have the starting position of the thread on the profile.

The starting position is in the middle of the face.

You can use the "Manual choice of the starting point" function  to change the starting point.

The top and bottom profiles is created. We can see the white auto tag.

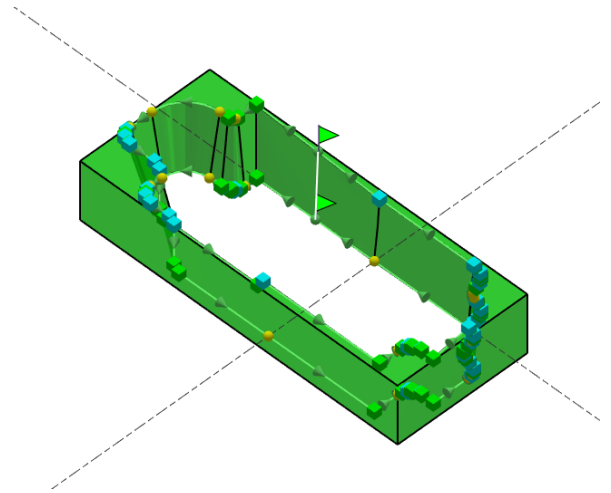
- Left click on 



The profile is displayed in white, and the green mark indicates the start and end positions.


Save of file :

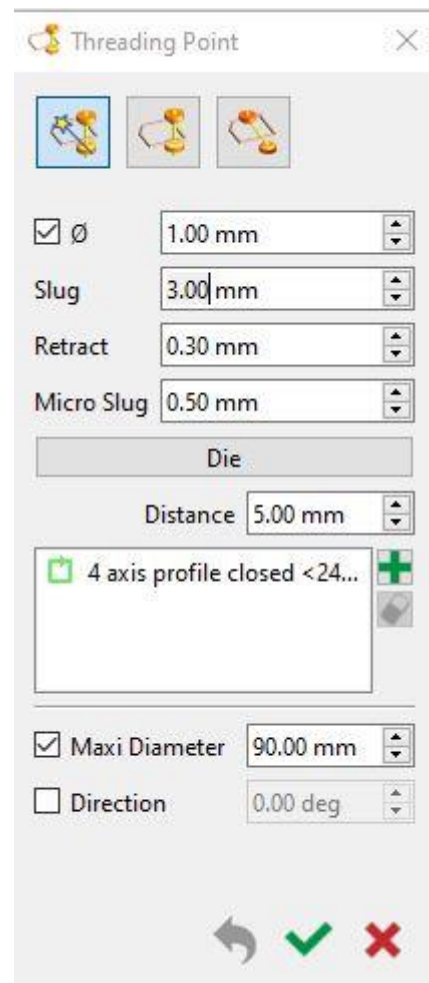
- Left click on the menu **File**
- Left click on **Save as**
- Type name:  
"W07\_Solid\_Extrusion\_Die"
- Press **Enter** or Left click on **Save**

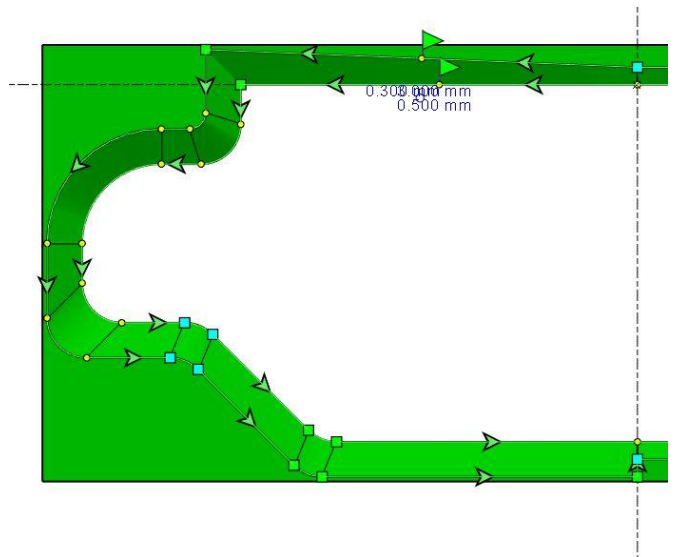


### III. Machining of progressive cutting edge




#### 1. Definition of threading point:

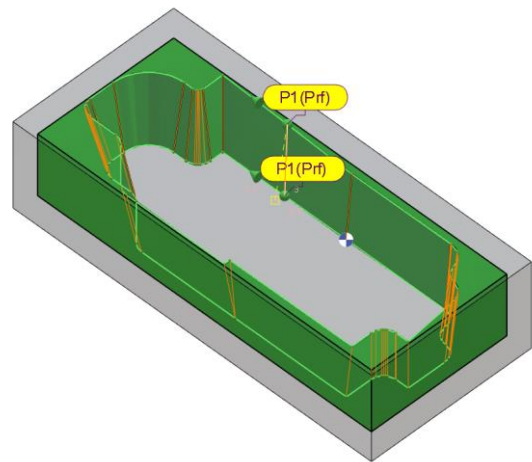
- Select the menu Threading
- Left click on the function **Manual threading.** 
- Auto threading on profiles is preselected.
- Type value 5, **Enter**
- Type value 3 in Slug, **Enter**
- Left click on the profile, automatically create threading points
- Validate and quit the function






## 2. Selection of tool:

- Select the menu EDM 
- Left click on the menu  4 Axes
- Left click on Select Top Then Bottom Profiles 
- Left click on the Top or Bottom Profile




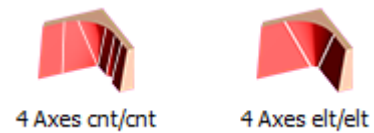
### 3. Selection of tool:

- Left click on 
- In the tool list, select "Cobra Cut 0.25"



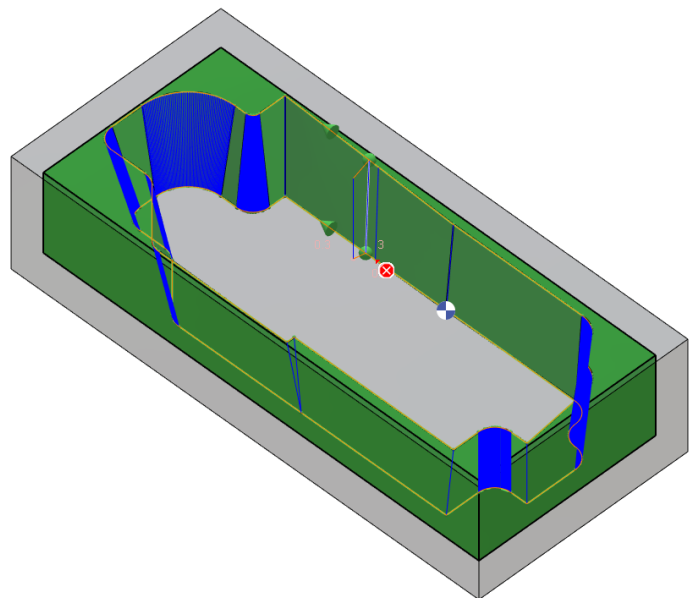
### 4. Selection of cycle:

- Left click on 
- Select 4 axes cnt/cnt







### 5. Calculation of cycle:

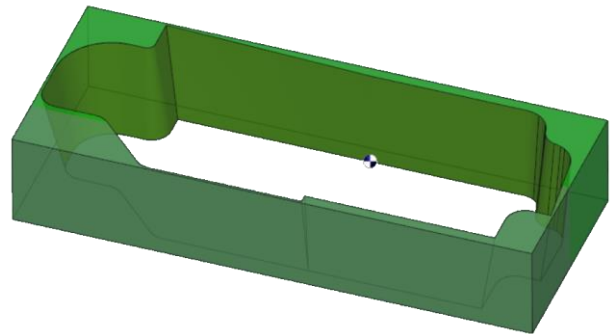
- Left click on Cycle Calculation 




## IV. Simulation and NC output:

### 1. Simulation :

- Enter in  NC File
- Left click on **Simulation** 
- Left click on  Or click the space bar to start the simulation in step-by-step mode
- Left click on  Or press the Escape key to stop the simulation.



### 2. Generation of ISO program:

- Left click on 
- Left click on the post-processor E60\_FanucW
- Left click on **Open**, Left click on **Confirm**

The ISO Program is generated.

