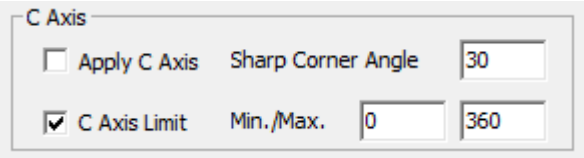
Profiling Parameters

C Axis

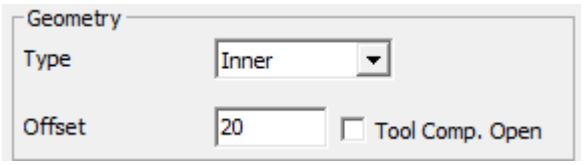


Apply C axis: Specifies whether the C axis will be used.

Sharp Corner Angle: When the angle specified is greater than the specified degree, the tool lifts up during the turn and performs the turn above, then continues its movement.

C Axis Limit: If there is a C axis limit on the machine, when limit values are entered, the tool path is calculated accordingly.

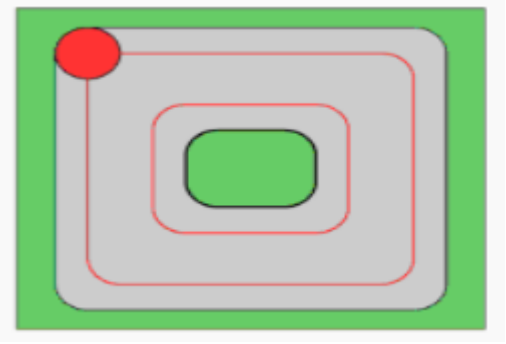
Geometry



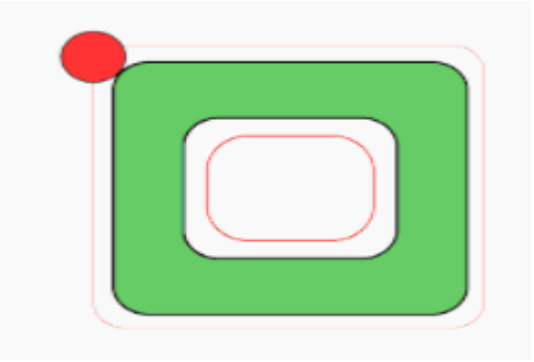
Type: Indicates whether the tool path will turn inside or outside the geometry.

Offset: It is the offset value according to the tool diameter or the offset value that the user can enter manually.

- If the "Tool comp open" option is enabled, tool compensation is performed by the controller, and G-code is generated according to the direction of the entity.

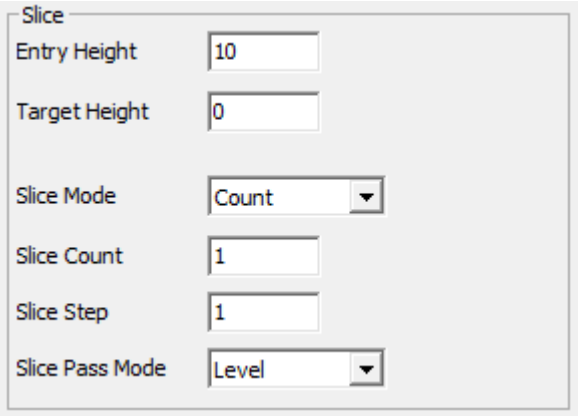


Inside Sample

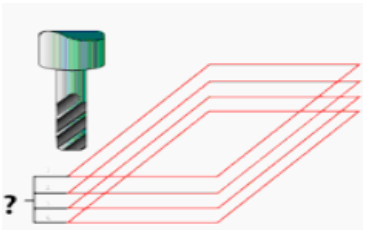


Outside Sample

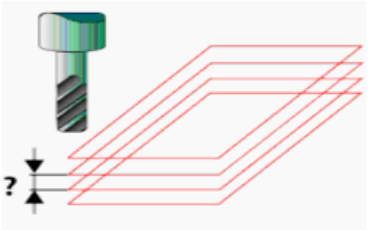
Slice



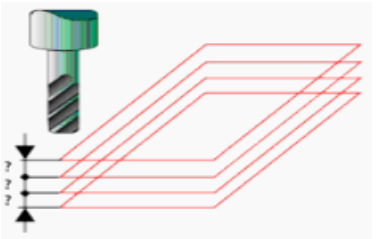
Entry Height: The height at which the initial entry into the part will be made.
Target Height: The target height where the tool will descend.
Slice Mode: Quantity, step, or height can be selected.
Slice Count: The number of steps from entry height to target height.
Slice Step: The height information of the steps.



Quantity

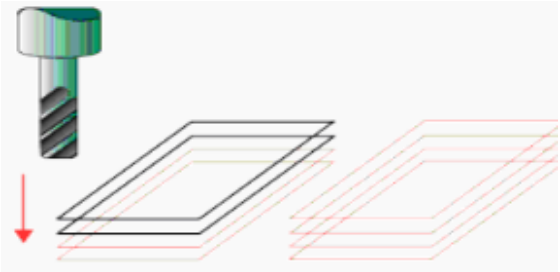


Step

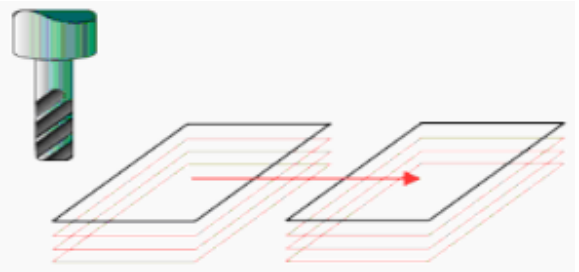


Height

Slice Pass Mode: Can be selected as field or level.

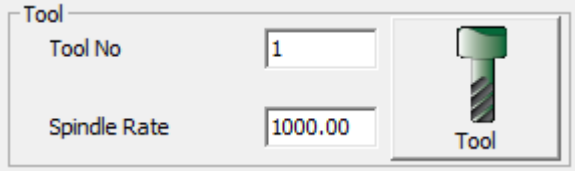


Field

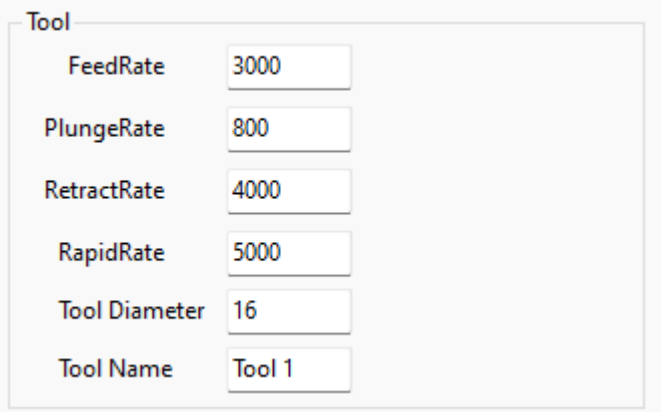


Level

Tool

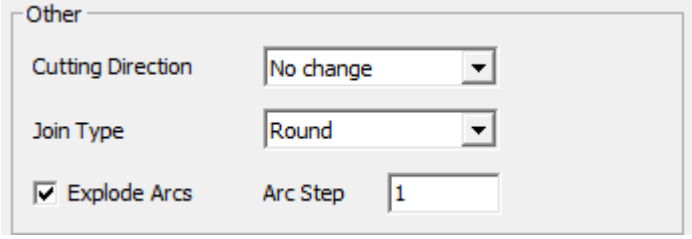


Tool No: Number of tool
Spindle Rate: Spindle rpm value



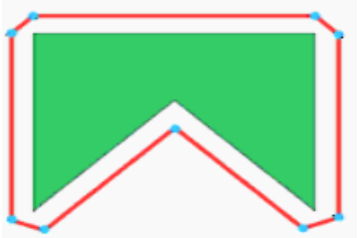
Feed Rate: Feed speed
Plunge Rate: Plunge speed
Retract Rate: Retract speed
Rapid Rate: Rapid movement speed
Tool Diameter: Diameter of tool
Tool Name: Name of tool

Other

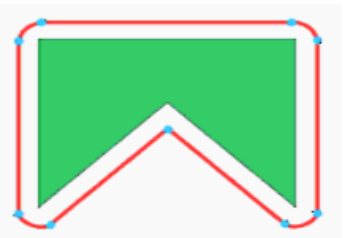


Cutting Direction: No change, Reverse, Clockwise, and Counterclockwise options are available. Set the cutting direction accordingly.

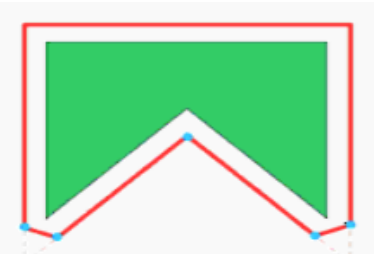
Join Type: Specifies the type of joining for offset given corners. Round, Square, and Miter options are available.



Round



Square

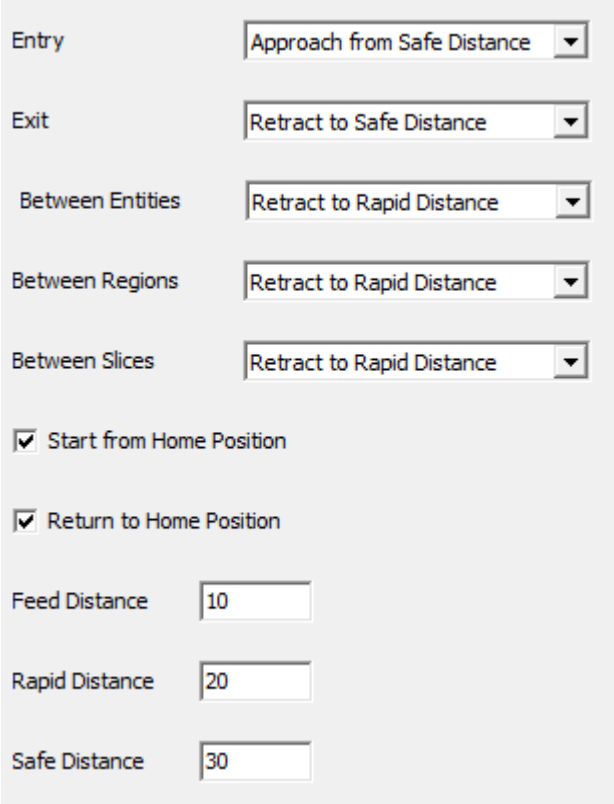


Miter

Explode Arcs: Enables the springs to be exploded, allowing XYZ type coordinates to be obtained from I and J type.

Arc Step: Specifies the distance for exploding the springs.

Approach/Retract



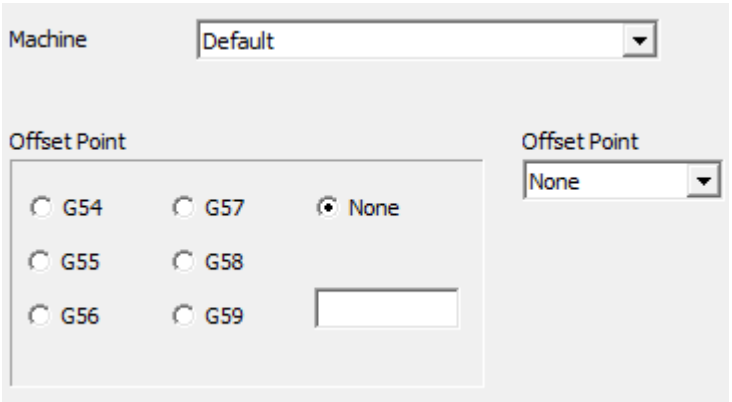
- Selection can be made from Entry, Exit, Between Entities, Between Fields distances, Cutting Height, Rapid Movement Height, and Safe Height.

- Selection can be directly between slices or from the distances mentioned above.

- Starting and ending at the home position can be selected.

- Cutting, Rapid Movement, and Safe Height can be adjusted as desired.

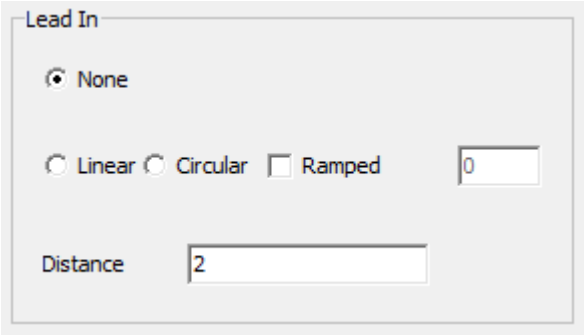
Machine



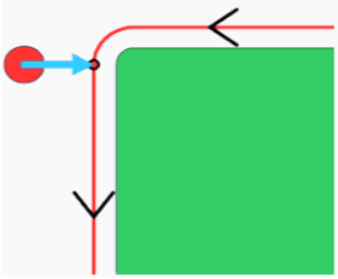
- The desired machine is selected, and G-code is obtained through its Post file.

- Offset points can be selected.

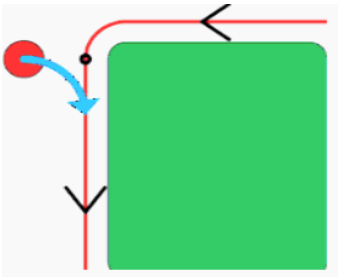
Lead In/Out



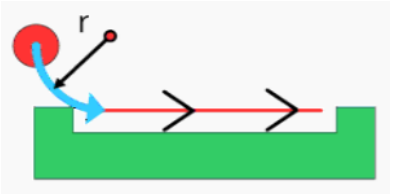
- Lead In selection can be linear or circular.
- If ramped is selected, it enters the part at an inclined angle.
- Lead In distance is determined.



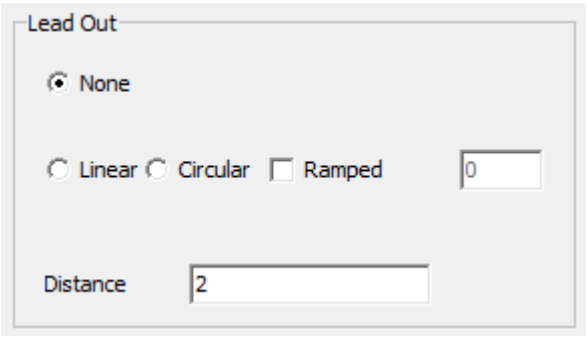
Linear



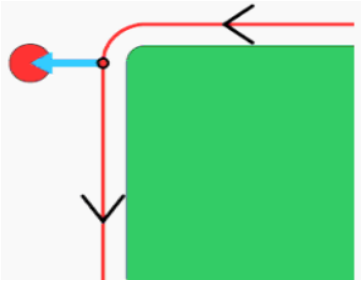
Circular



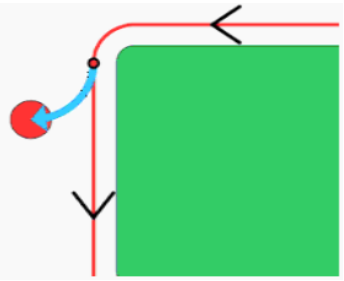
Ramped



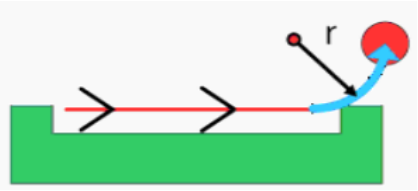
- Lead Out selection can be linear or circular.
- If ramped is selected, it exits the part at an inclined angle.
- Lead Out distance is determined.



Linear

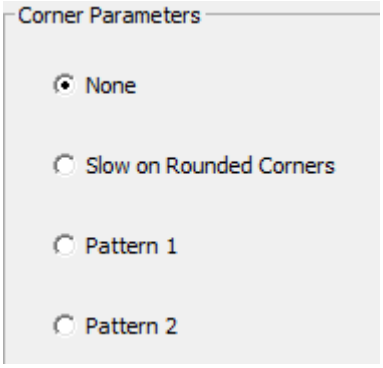


Circular

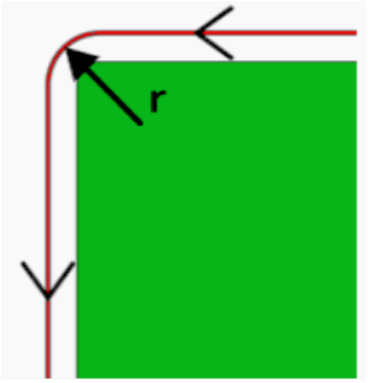


Ramped

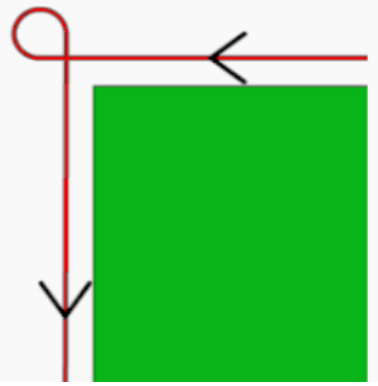
Corner



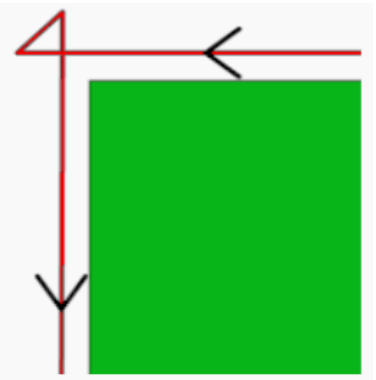
- At corners, the feed rate for large angles from a certain angle can be customized.
- Pattern 1 or Pattern 2 can be applied at corners.



Slow on Rounded Corners



Pattern 1



Pattern 2