

FlowTo5Axis Add-On

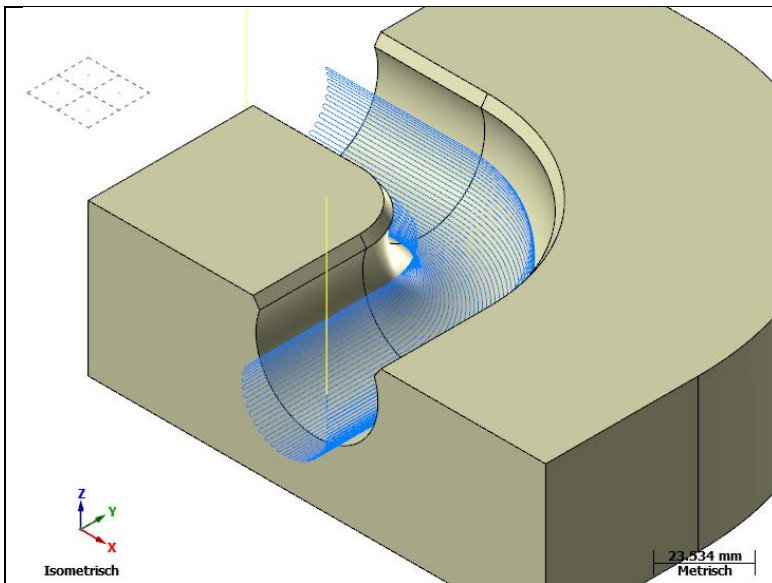
Mastercam's **surface finish flowline** is a powerful toolpath because it can be used for undercuts.

However, there is no way to control the tool axis as it is only a 3-axis toolpath.

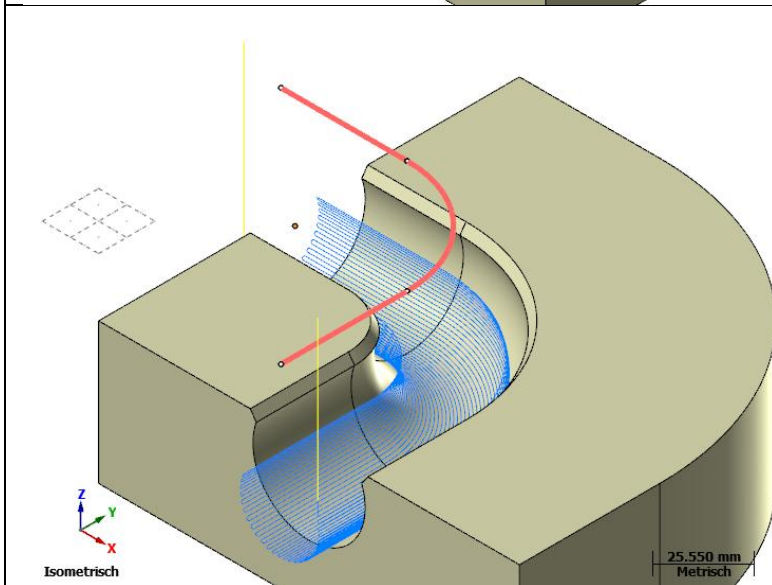
With **FlowTo5Axis** you can generate a 5-axis toolpath from Mastercam's surface flowline toolpath.

The Add-on allows you to control the tool axis with geometry (Chains, Lines, Arcs, Points or Splines).

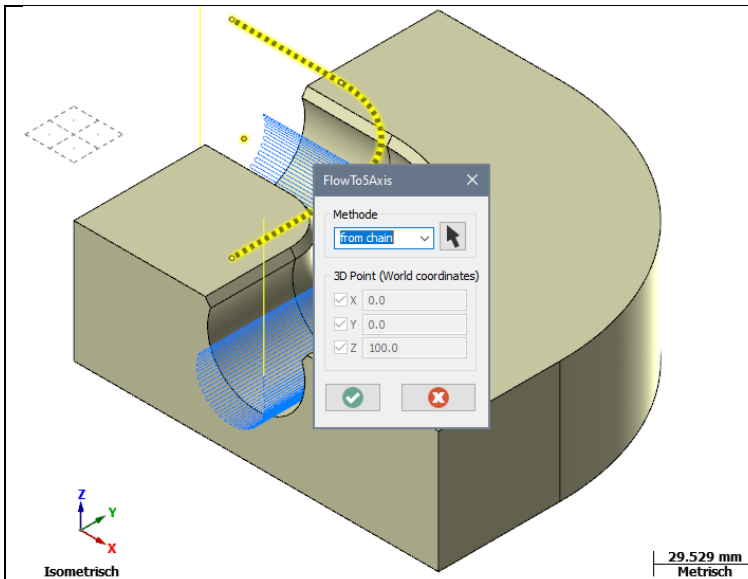
How to use FlowTo5Axis?



First create a **surface flowline** toolpath. Uncheck any collision control checkboxes in order to cut undercuts. Extend entry/exit moves to ensure that rapid moves are outside the part.



Create the geometry to control the tool axis. The red geometry should be used to control the tool axis.

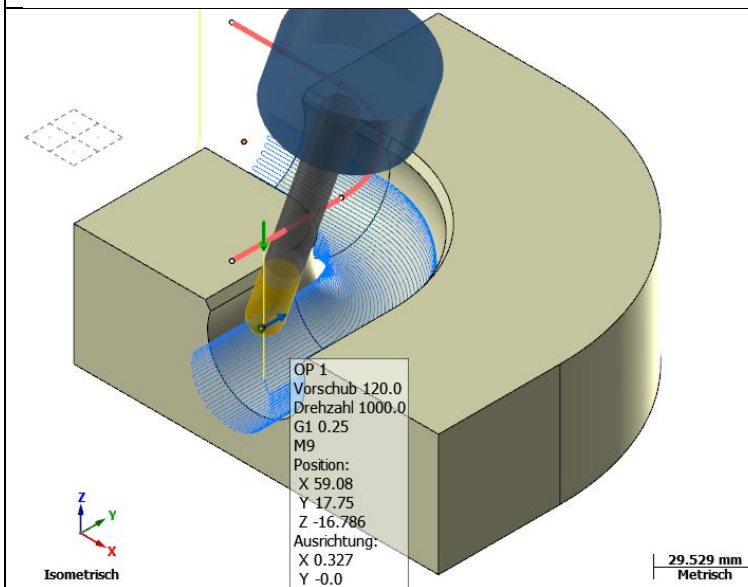


Run **FlowTo5Axis**.

(The surface flowline toolpath needs to be selected at this moment)

Choose the method **from chain**.

Click on the black arrow then select the red geometry within the chaining dialog. Press OK.



The tool axis is controlled by the selected geometry.

The **shortest distance** to the geometry will be used to control the tool axis.

Notes:

Pros:

- Very easy to use
- Fast
- Cheap
- No need to have Mastercam's multiaxis option for this Add-On

Cons:

- Limited to Mastercam's flowline toolpath
- No collision control by itself