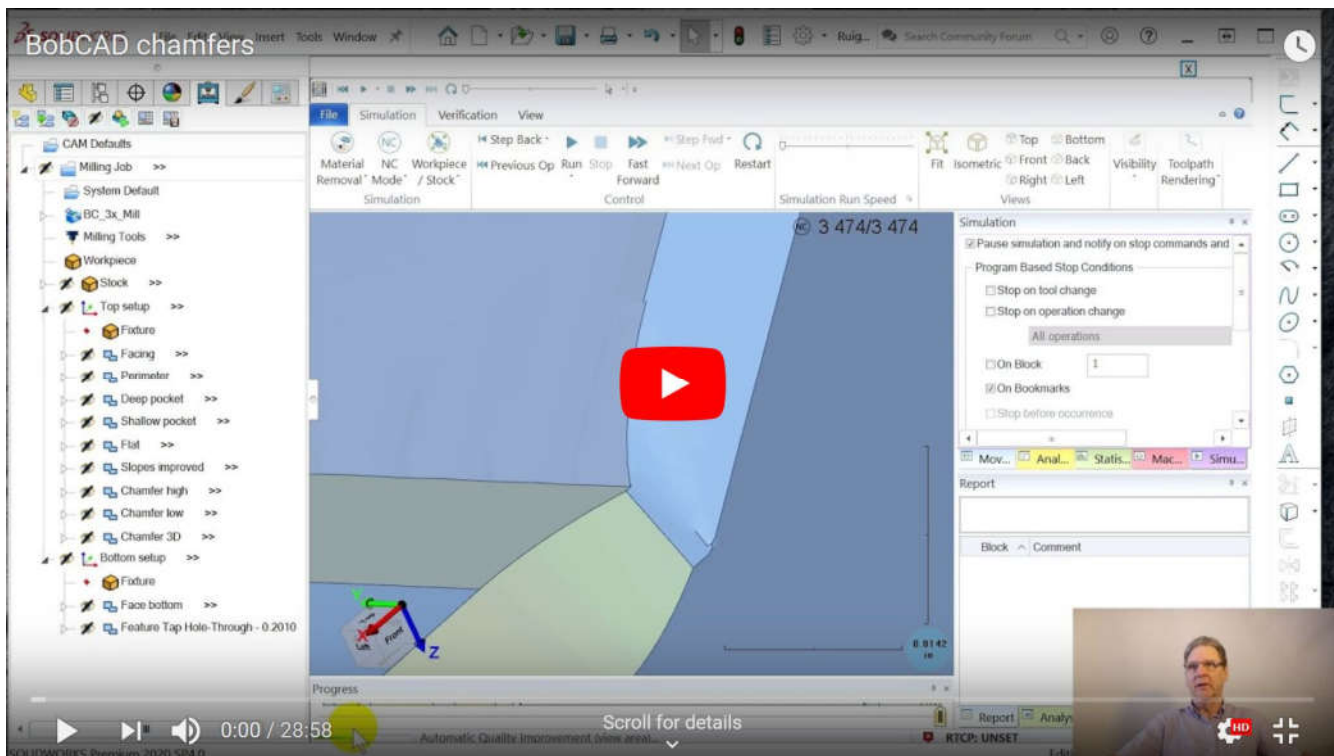*RAKO STUDIOS*

Rako Studios » Media » Suffering-with-software » BobCAD-CAM chamfers

BobCAD-CAM chamfers
BobCAD CAM for SolidWorks can do 2D and 3D chamfers. You can combine 2D and 3D operations to get a uniform edge.

Beginning part file here.
Finished part file here.

All the CAM programs seem to do chamfers with a different set of dialog box entries. None of this is too mysterious, but it can be challenging to figure out how to do things the first few times.

BobCAD does 2D chamfers as a sub-type of the 2D mill operation feature. When you select the chamfer operation in the wizard dialog box it helps by limiting your tool selections and restricting things in the other sub-dialogs. This means it is not too hard to figure out where to set the depth of the chamfer, and how far down the cutting occurs on the tool.

Doing 2D chamfers is fairly straightforward, but you can't do chamfers on two different levels in one operation, like in SolidCAM. When you try this, BobCAD just makes two different operations for you, and since the second one inherits a lot of setting from the first, it is easier to just do the second level from scratch.

3D chamfering is in the 3D wireframe menu. It is more complicated, but you can get to a solution eventually. By combining a 2D and 3D operation, as in the video, you can keep a more consistent chamfer width along the edges of the part, whether flat edges or ones on slopes. I could only figure out how to do this by trail-and-error.