

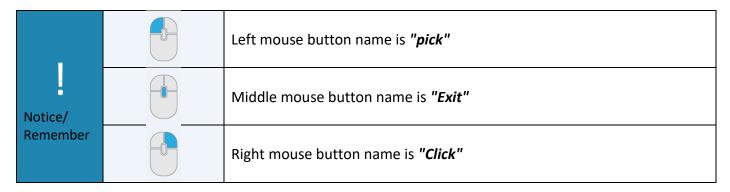
TILT SUPPORTS

Tutorial_V1 - Updated: 13,0600,1489,1619(SP6)



Introduction

In this exercise we will learn how to tilt and scale support

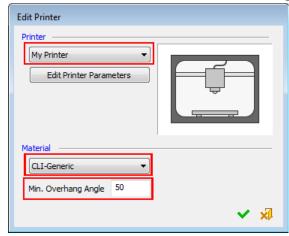




1. Select New 3D printing project



- 2. Once the project is opened select Edit Printer Edit Printer
- 3. Set the Printer, Material and Min. overhang angle as in the image below



Select OK

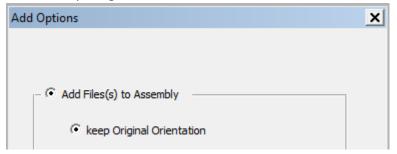


4. Select Component to load the part. Pick Manifold_4SW.elt.

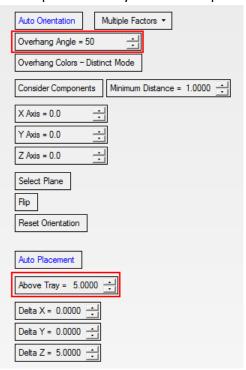




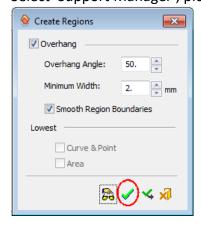
5. Select 'keep Original Orientation' and ok



6. Select position body and set the parameters as below and OK



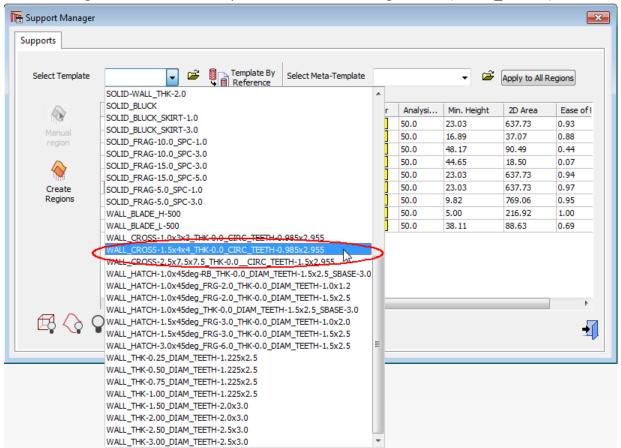
7. Select 'Support Manager', pick the part and OK on the dialog below





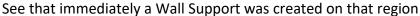


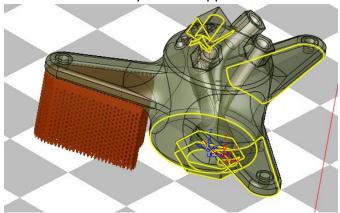
8. Select region 6 and set the template marked in the image below ('WALL_CROSS')





The naming convention of the templates is explained in a separate document





Tilting:

A dashed black reference line appears along the supports. To tilt the support, pick the purple ball at the bottom of the line and drag it. As you release the mouse, the supports will move accordingly. An Angle box displays the current tilt angle of the support.





Scaling:

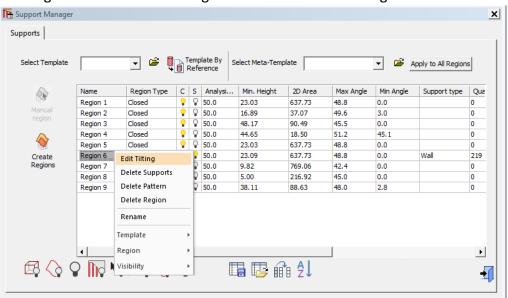
To add scaling to any point along the support height, pick anywhere on the support's reference line to add a breakpoint and set the scale factor in the displayed Scale value box.

A scale factor can also be set to non-tilted supports.

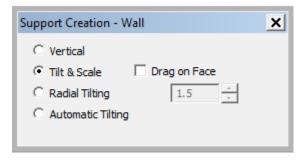
Note:

A breakpoint can also be tilted by dragging it. While dragging, if the line color changes from black to red, this means that the tilt angle is too big and therefore these supports cannot hold themselves. In this case, if the mouse is released, the Angle box and value also appear in red.

9. Click Right mouse button on Region 6 and select 'Edit Tilting'

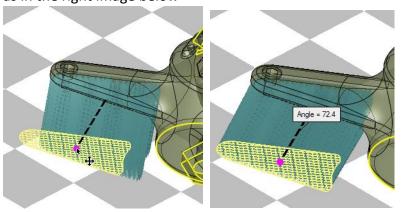


10. Select 'Tilt & Scale'

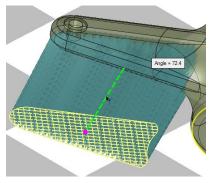


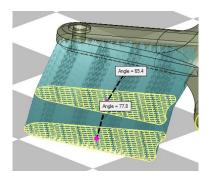


11. Select the pink dot and move the pattern on the tray to any value so that the support will be tilted as in the right image below

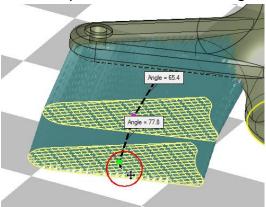


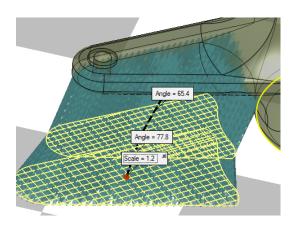
12. Select the line in the middle and drag it to set a break point tilting





13. Select the pink dot and set 1.2 scaling

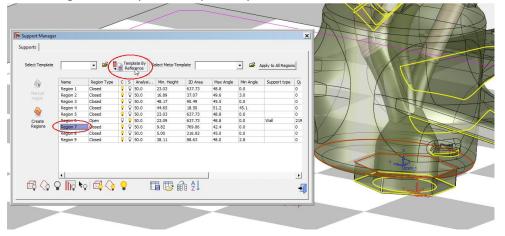




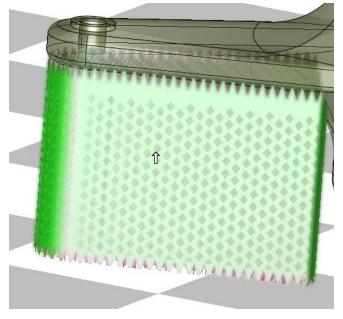




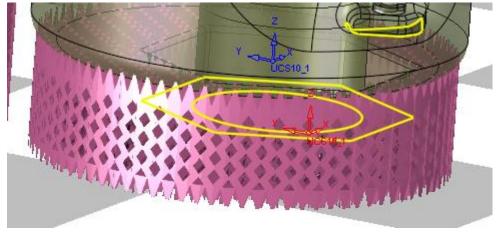
15. Select Region 7 and pick 'Template by Referece'



16. Pick the previously created support



17. A new support is created



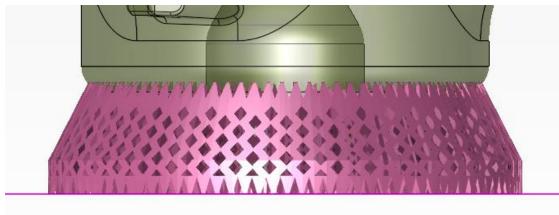




- 18. RMB the region and select 'Edit Tilting'
- 19. Select Radial Tilting and set factor of 1.2



20. Examine the result



21. Edit the tilting again and Pick the Radial Scale Center (purple plus sign) at the bottom of the dashed line and drag it to the required position to change the angle (again, set any value so that the support will be tilted as in the image below)

