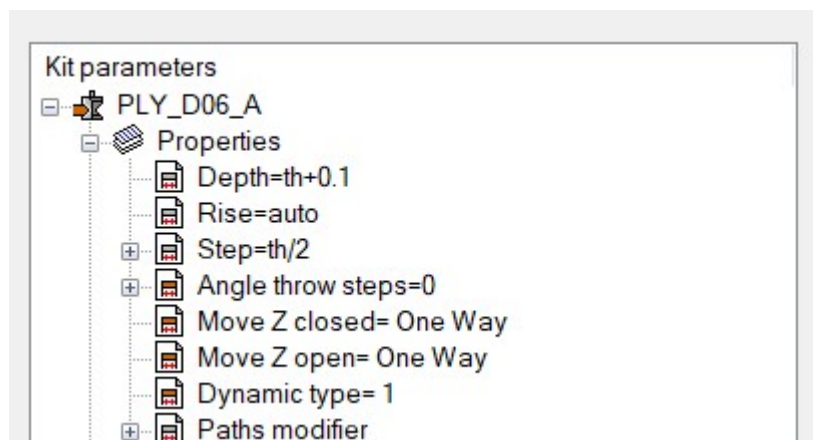# DDX, Creating a new material

To create a new material, you will also need to create new tooling with cutting settings. For this example, I will be creating Plywood.

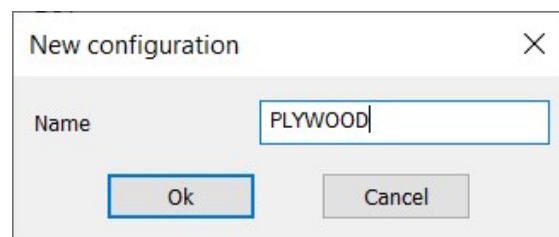<u>Creating the tooling for the new material</u>

1. Open DDX and go to Database/Kits, select a similar tool for the new material and select "New" to create a copy of the tool.

2. Select the copied tool and in the middle window right click and rename the tool to the new name and select "Save".

3. Edit the tool strategy.

4. Got to Database/Automatic Cam and select "New", this will create a new category of tooling. Name the new material and select "OK"

5. You have created a new material category, but it is unoccupied by tooling. Select an existing category and right click and copy a tool with similar tool characteristics.

   You will be prompted by a window saying "The configuration is empty. Do you want to save anyway", select "Yes"

6. Go back to the new category and paste the tool into the middle window.

7. In the right window's filter Enter the name of the tool you have just created.

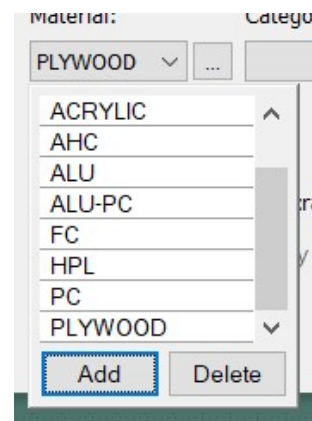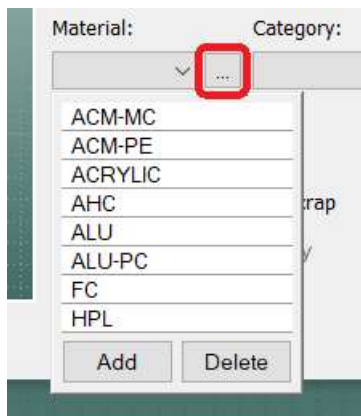8. Now drag and drop the tool to overwrite the associated kit.

9. "Save"

Creating the sheet geometry

10. Open "Nest" then and select "Add"

11. enter all the material details including width, height, and thickness.

Name	Width	Height	Thickness	Material ▲	Catego
PLY_2440x1220x18	2440	1220	18		
ACM-PE_3050x125...	3050	1250	4	ACM-PE	
ACM-PE_4000x150...	4000	1500	4	ACM-PE	
ACM_GED	1500	720	4	ACM-PE	

12. To enter the "Material" open the dropdown option and select the three dots then selct "Add" and type the material name.
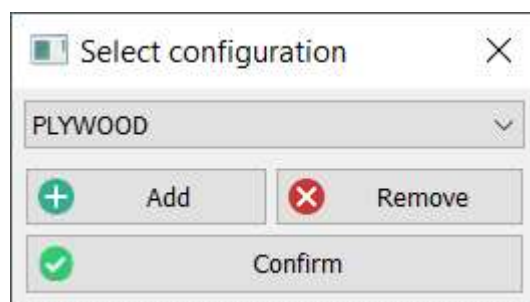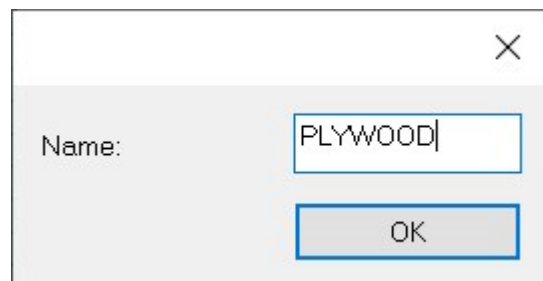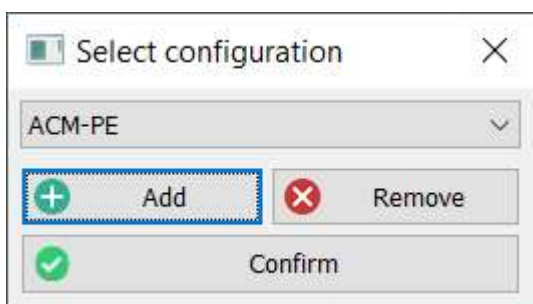

The new material will appear in the appropriate window.

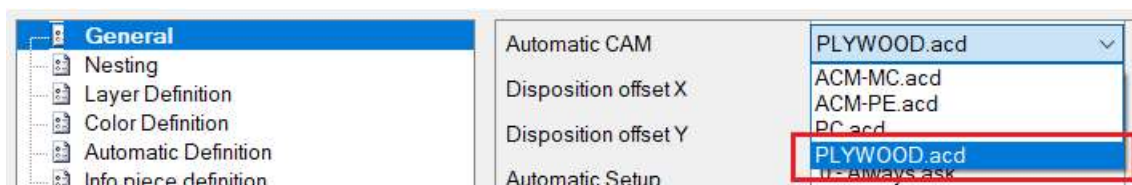| Name	Width	Height	Thickness	Material ▲	Category	Quantity	Scrap	Grain :	Take
PLY_2440x1220x18	2440	1220	18	PLYWOOD		50	☐	→	1
ACM-PE_3050x125...	3050	1250	4	ACM-PE		127	☐		1
ACM-PE_4000x150...	4000	1500	4	ACM-PE		89	☐		1
ACM_GED	1500	720	4	ACM-PE		0	☐		1
ACRYLIC	3000	2000	8	ACRYLIC		0	☐		1

Associating the tooling to the material

13. Open the "File Importer" and select the "Configuration log"
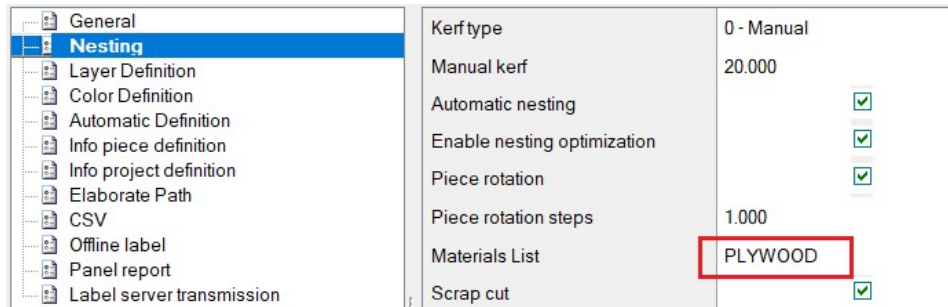
14. Select "Add" and enter the new material. Click "Ok" and then "Confirm"

15. In the "General/Automatic CAM" section select the material from the dropdown list.

16. Go to "Nesting/Material List" and select "Plywood" from the dropdown

When you now create a nest of parts, you will be able to select the new material.