Creating a Base Grid
in Netfabb

Translation of the Original Instructions

EN

About the Instructions

These instructions describe the procedure of how to create a base grid in Netfabb.

The personnel must read and understand this manual before beginning any work. Basic requirement for safe working is the compliance with all safety and handling instructions given in this manual.

Any passing on as well as reproduction of this document, utilization and communication of its contents are strictly prohibited unless expressly permitted. Violation obligates compensation.
The original instructions were written in German.

Technical Service

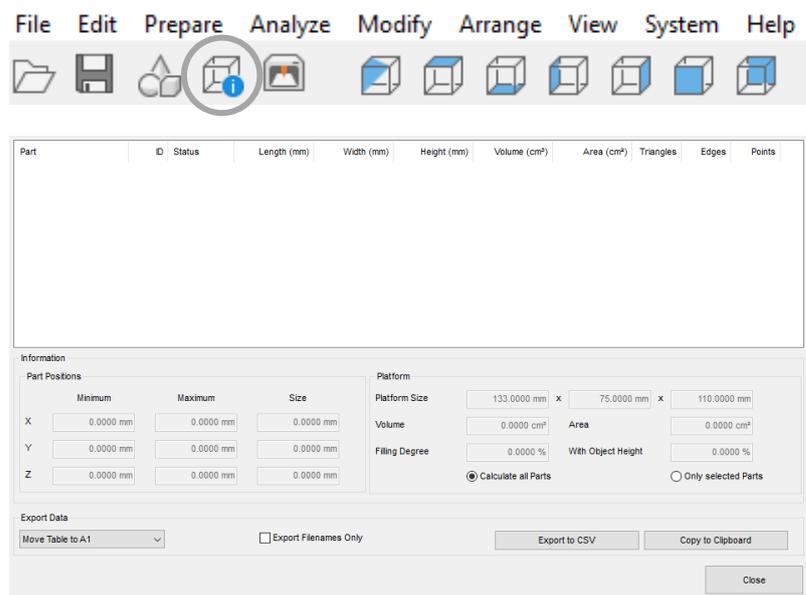Please contact your distributor or Rapid Shape.

1 Base Grid for whole Platform

Step 1

Preparing the Workspace

1. Open Netfabb.
2. Select and load the machine workspace you want to work with.
3. Select the "Machine" and the "Material" you want to work with.

> If you are not sure how to select a machine workspace, machine and material, please refer to the separately available how-to guides on our Homepage.

4. Click on the button "Platform Overview".
   The platform's characteristics will be displayed.

5. Check the "Platform Size" in X and Y. You will need it for creating the base grid.
6. Click on the button "Close" in order to return back to main page.

Step 2

Creating the Base Grid

1. Click on the button "Part Library".
   Netfabb's part library will be opened.

2. Select category "Design".
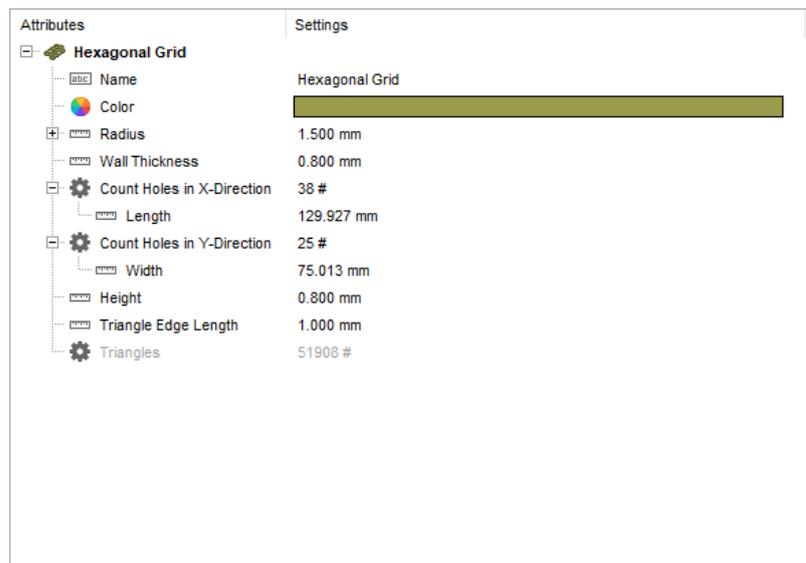
3.   Double-click on option "Hexagonal Grid".
     The grid's settings will be opened.
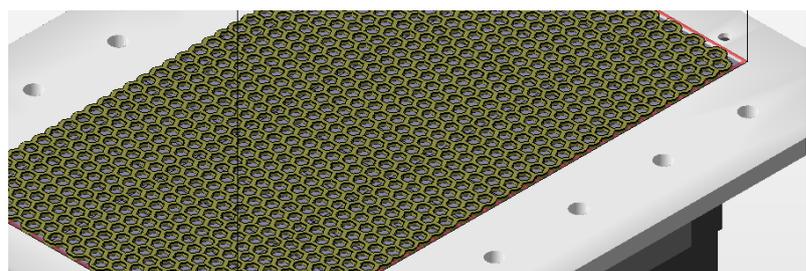

4.   Enter the following values:
     Radius: 1.500 mm
     Wall thickness: 0.800 mm
     Height: 0.800 mm

     Length (X):   see value from platform size (step 1)
     Width (Y):   see value from platform size (step 1)

Netfabb may round up or down the values depending on which direction is the closest to completing a hexagon. If it's bigger than the build area, you will be notified that there are parts outside the build area. However, bigger parts will be cut off during the print process automatically.

Attributes	Settings
Hexagonal Grid	
Name	Hexagonal Grid
Color	
Radius	1.500 mm
Wall Thickness	0.800 mm
Count Holes in X-Direction	38 #
Length	129.927 mm
Count Holes in Y-Direction	25 #
Width	75.013 mm
Height	0.800 mm
Triangle Edge Length	1.000 mm
Triangles	51908 #

5.   Click on button "Save as Defaults" if you want to use this base grid again for later print jobs.
6.   Click on button "Create Part".
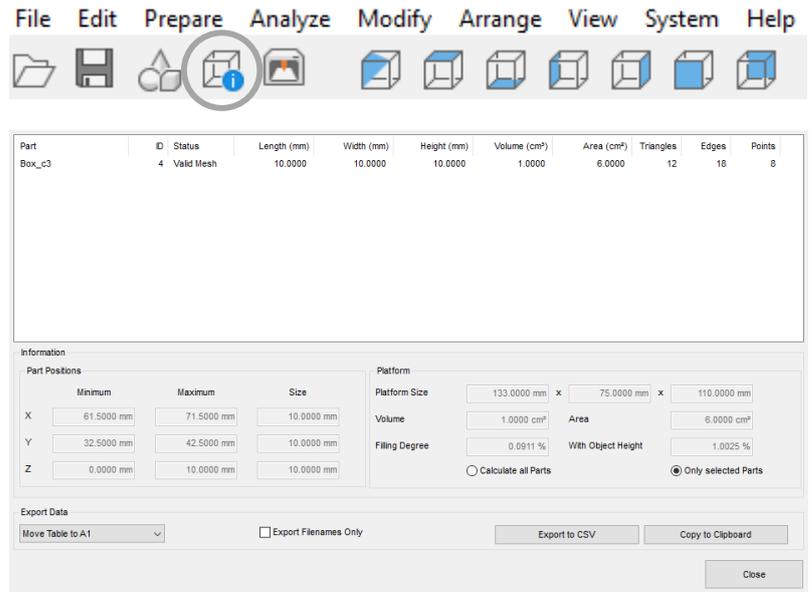   The base grid will be created.

2 Base Grid for specific Part

Step 1

Preparing the Workspace

1. Open Netfabb.
2. Select and load the machine workspace you want to work with.
3. Select the "Machine" and the "Material" you want to work with.
4. Load a part to Netfabb.
5. Select your uploaded part by clicking on it.
6. Click on the button "Platform Overview".
   The platform's characteristics will be displayed.

7. Check the "Size" of your part in X and Y. You will need it for creating the base grid.
8. Click on the button "Close" in order to return back to main page.
9. Follow the instructions given in chapter 1 Step 2, "Creating the Base Grid".