

Voxel Dance

Software Integration



Photo**o**centric

Installation - Voxel Dance

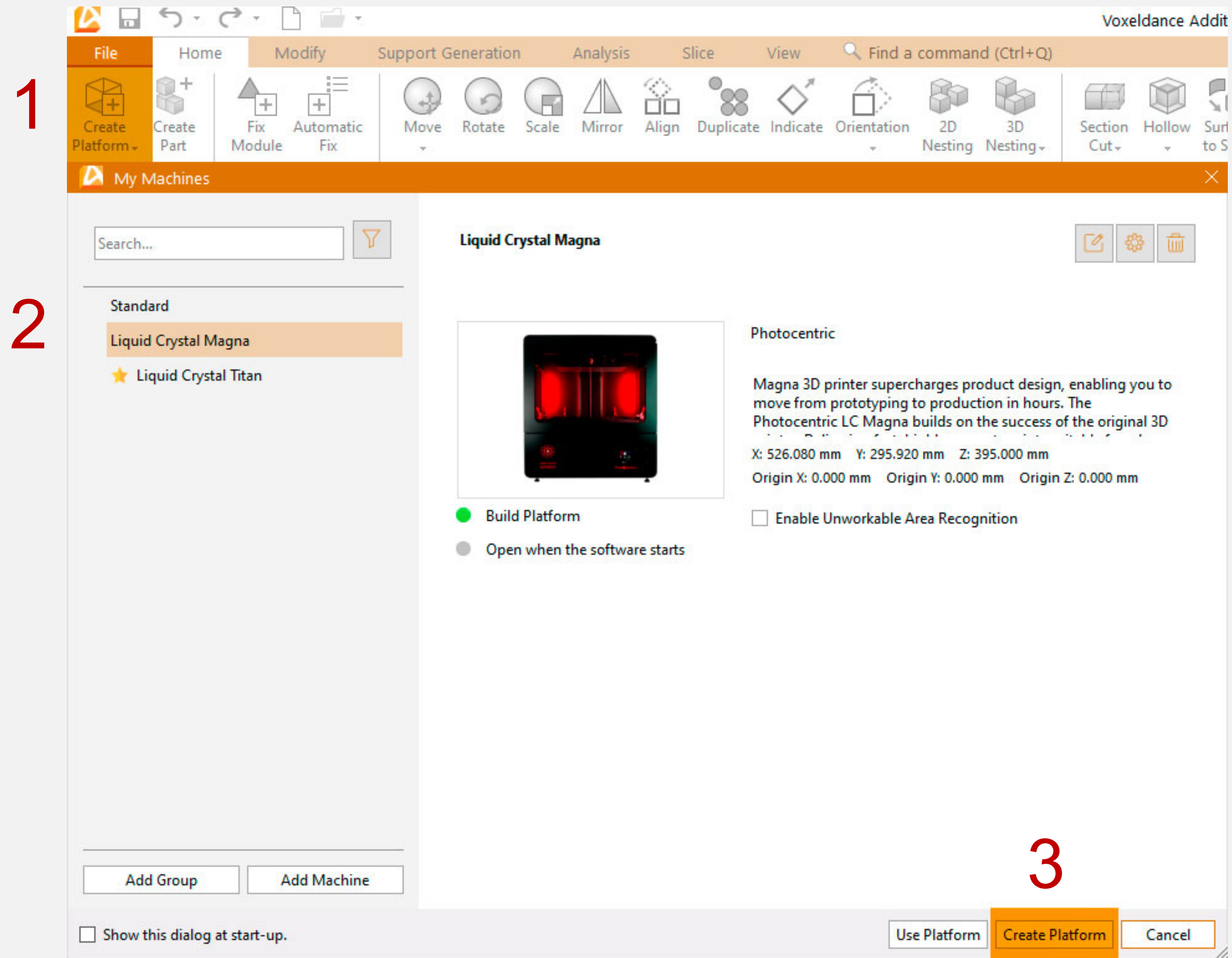
To ensure the software is installed and activated properly, follow the below Steps

- Run the installer as an administrator by right-clicking on it and selecting "Run as Administrator.
- Make sure your firewall or antivirus software isn't blocking the server connection needed for activation. If necessary, temporarily disable your antivirus software during this process. Please keep in mind that these steps only need to be done once.



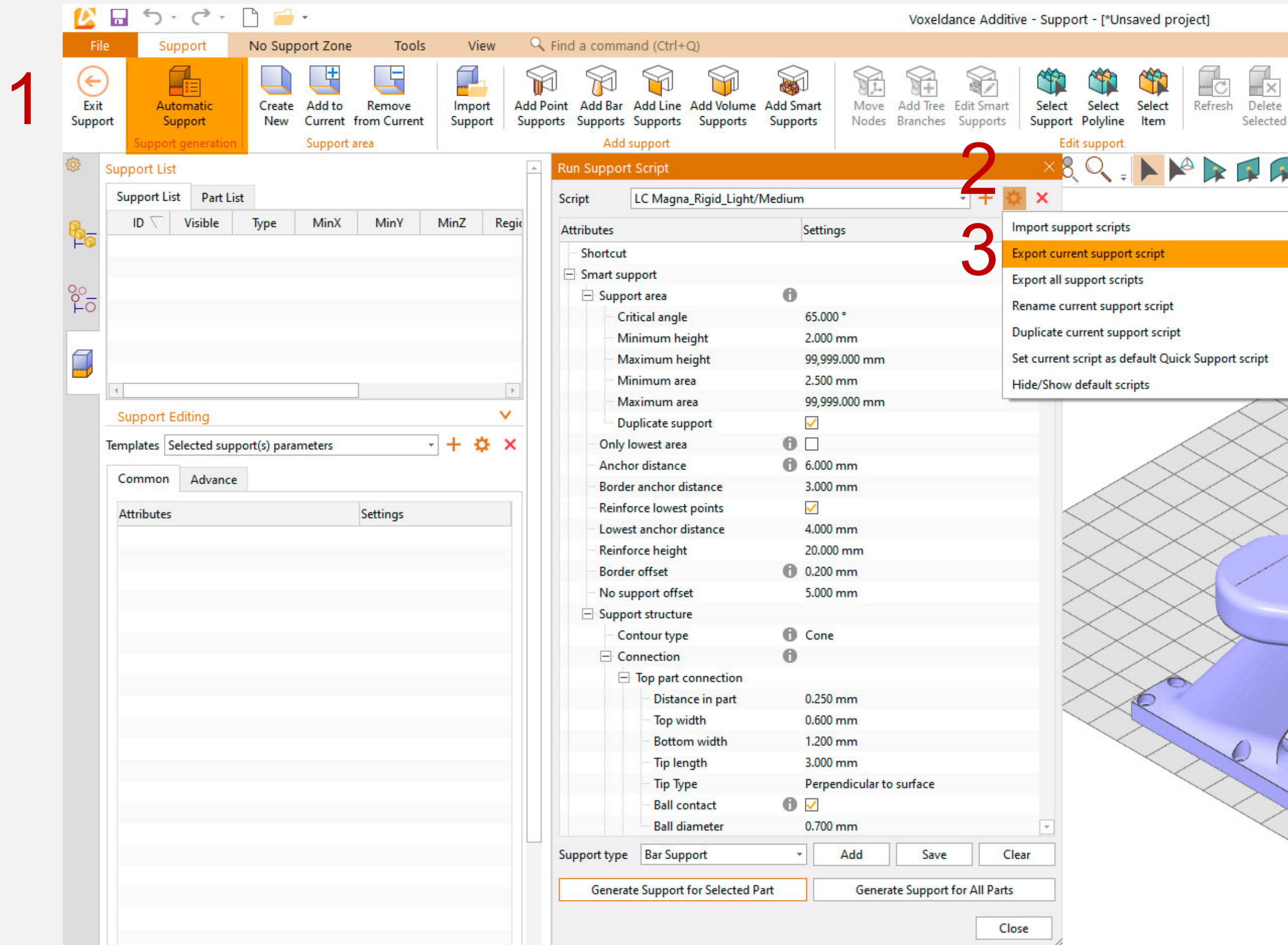
Adding machine profiles

- Navigate to "Create Platform", choose "Platform Definition", and click on "Add Machine" to include LC Magna and LC Titan in the library.
- After adding the printer profiles, set the printers as default by right-clicking on them.
- If you are using an older version of Voxel Dance software and cannot find the "Photocentric" Machine Profiles in the directory, you can import the machine profiles. To do this, follow these steps:
 - ✓ 1. Go to "Create Platform"
 - ✓ 2. Select "Platform Definition"
 - ✓ 3. Right-click on the "My Machine" section
 - ✓ 4. Choose "Import"
 - ✓ 5. Select the .vdafpg format machine profile



Importing Photocentric Supports Scripts

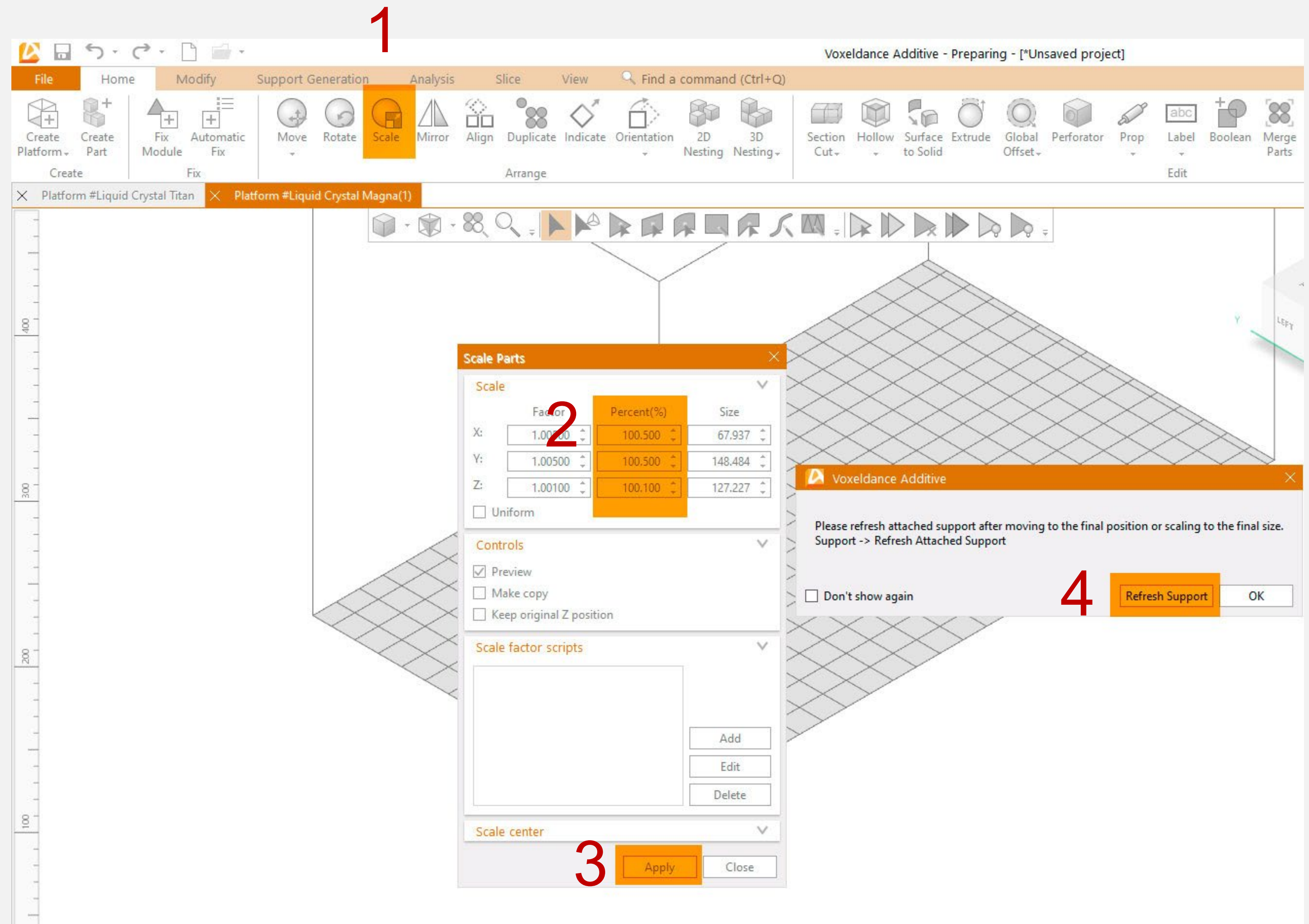
- Open the VD software and select the "Support Generation" tab. Click on "Support Module".
- Select the Automatic Support button and click on the gearwheel in the top right corner of the tab. options to import/export the support scripts.
- Support Profiles can be downloaded from the website
- Photocentric continually updates and optimises the scripts so please check out for the latest updates.
- Users can export all settings e.g. UI settings colours etc. (as in Photocentric Studio). To do this go to File\Options and then select the Import/Export option



Slicing in Voxel Dance

- Before Slicing the file in VD, make sure to apply Shrinkage Correction by scaling the part in XY by 0.5% and in Z by 0.1%*
- Shrinkage correction can be modified by going to the “Scale” tab and updating the values as shown.

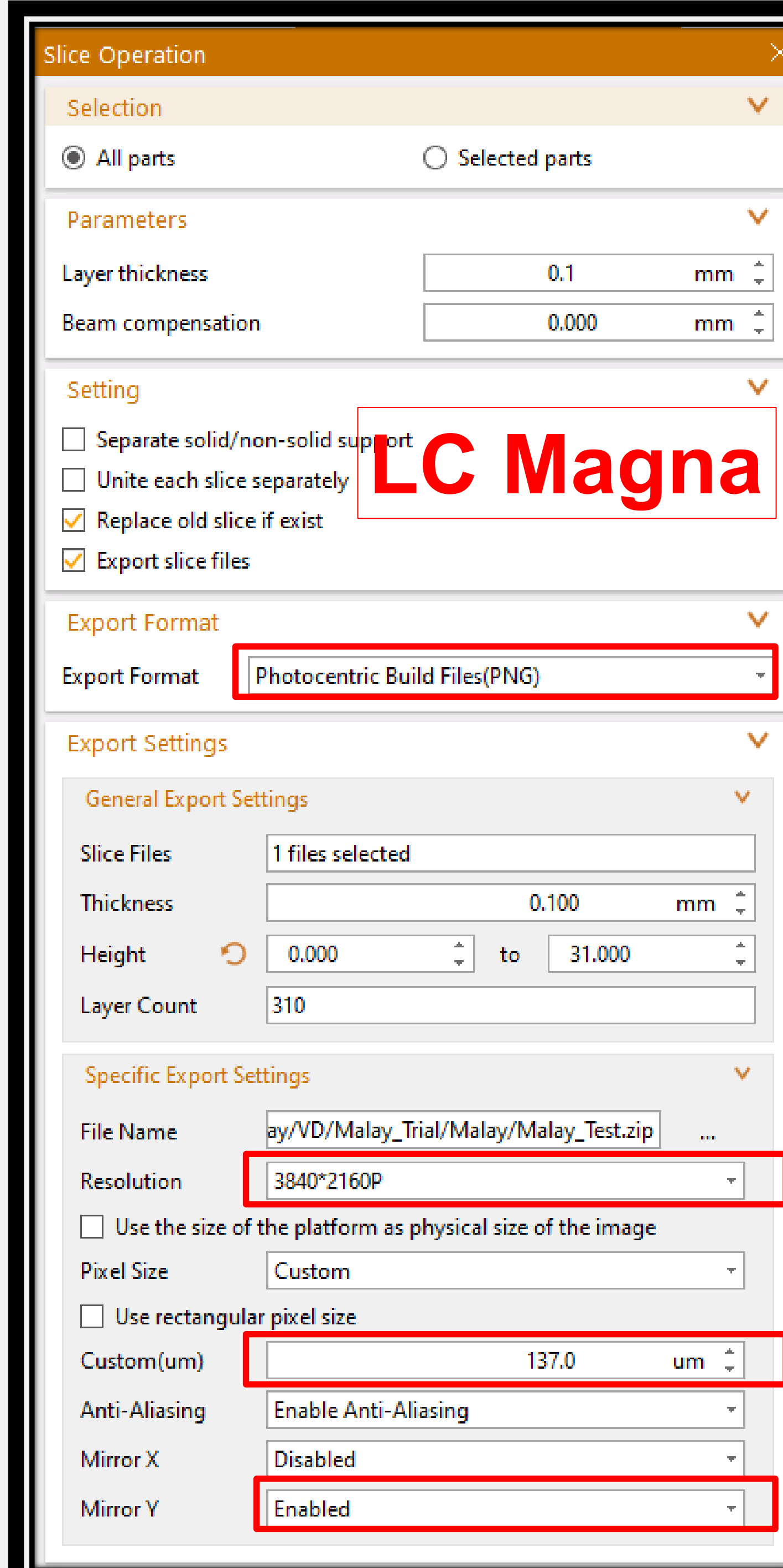
*Except for flexible resin the scaling factor should be -4% XYZ



Slicing in Voxel Dance

- After the Shrinkage factor have been applied to the part, we can slice the part in VD directly.
- Please make sure to change the parameters such as Resolution, and pixel size based on the printer you are using*
- Respective settings for LC Magna and LC Titan are shown here for reference

*Pixel size and screen resolution are different for LC Magna and LC Titan. Please make sure to change them accordingly.



Slice Operation

Selection

All parts Selected parts

Parameters

Layer thickness: 0.1 mm

Beam compensation: 0.000 mm

Setting

Separate solid/non-solid support

Unite each slice separately

Replace old slice if exist

Export slice files

Export Format

Export Format: Photocentric Build Files(PNG)

Export Settings

General Export Settings

Slice Files: 1 files selected

Thickness: 0.100 mm

Height: 0.000 to 31.000

Layer Count: 310

Specific Export Settings

File Name: ay/VD/Malay_Trial/Malay/Malay_Test.zip

Resolution: 3840*2160P

Use the size of the platform as physical size of the image

Pixel Size: Custom

Use rectangular pixel size

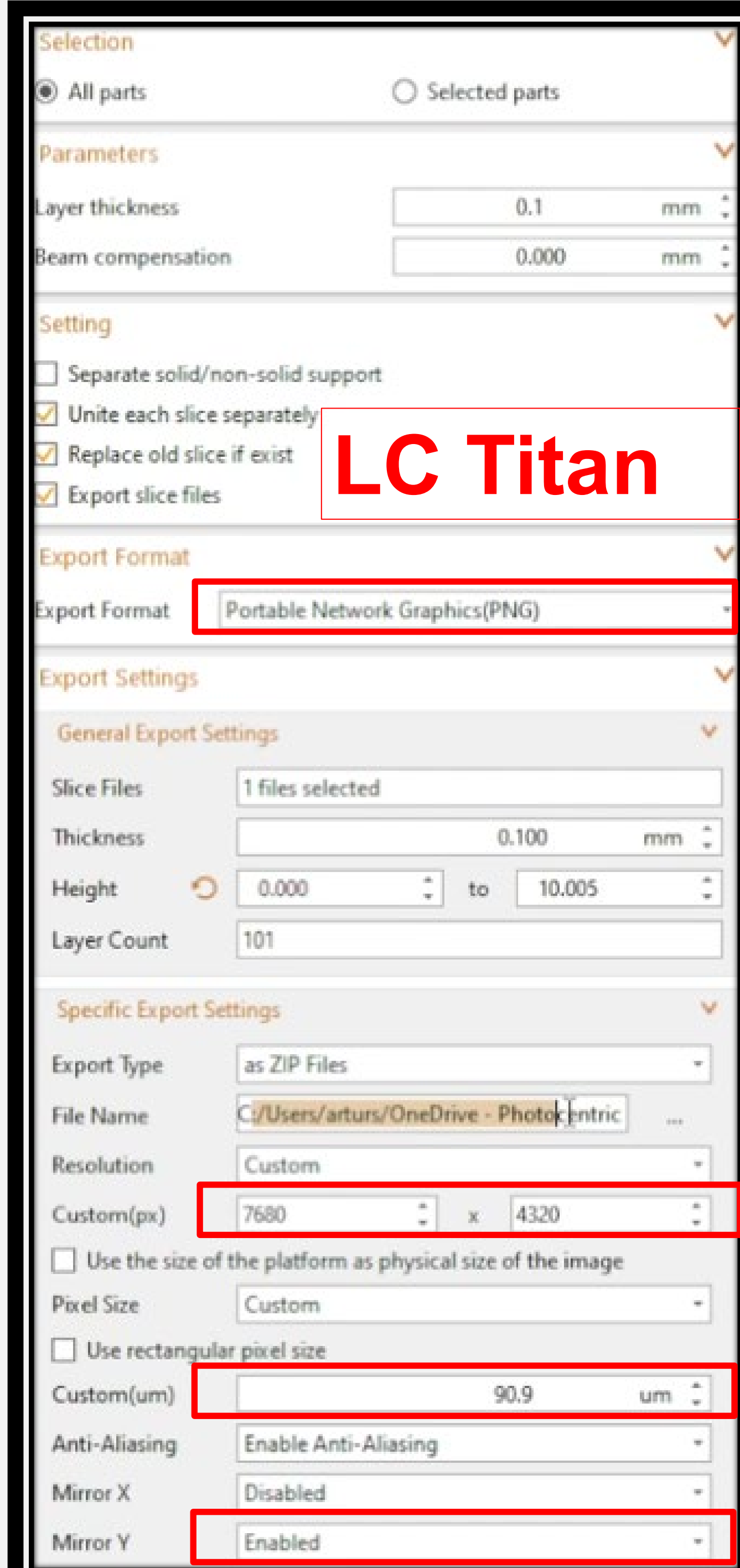
Custom(um): 137.0 um

Anti-Aliasing: Enable Anti-Aliasing

Mirror X: Disabled

Mirror Y: Enabled

LC Magna



Selection

All parts Selected parts

Parameters

Layer thickness: 0.1 mm

Beam compensation: 0.000 mm

Setting

Separate solid/non-solid support

Unite each slice separately

Replace old slice if exist

Export slice files

Export Format

Export Format: Portable Network Graphics(PNG)

Export Settings

General Export Settings

Slice Files: 1 files selected

Thickness: 0.100 mm

Height: 0.000 to 10.005

Layer Count: 101

Specific Export Settings

Export Type: as ZIP Files

File Name: C:/Users/arturs/OneDrive - Photocentric

Resolution: Custom

Custom(px): 7680 x 4320

Use the size of the platform as physical size of the image

Pixel Size: Custom

Use rectangular pixel size

Custom(um): 90.9 um

Anti-Aliasing: Enable Anti-Aliasing

Mirror X: Disabled

Mirror Y: Enabled

LC Titan

Slicing in Voxel Dance

- After slicing the file, please download the PFP converter from [\[here\]](#) to convert the sliced file from Voxel Dance into a format that can be used on Photocentric Printers.
- Once downloaded, open the Voxel Dance Print File Processor (PFP).
 - ✓ In the print file section, choose the sliced zip file obtained from slicing the part in Voxel Dance (as mentioned in the previous slide).
 - ✓ In the Output folder, select the destination folder for the "CRS" file.
 - ✓ Select the relevant printer and the resin profile and click "Convert."

