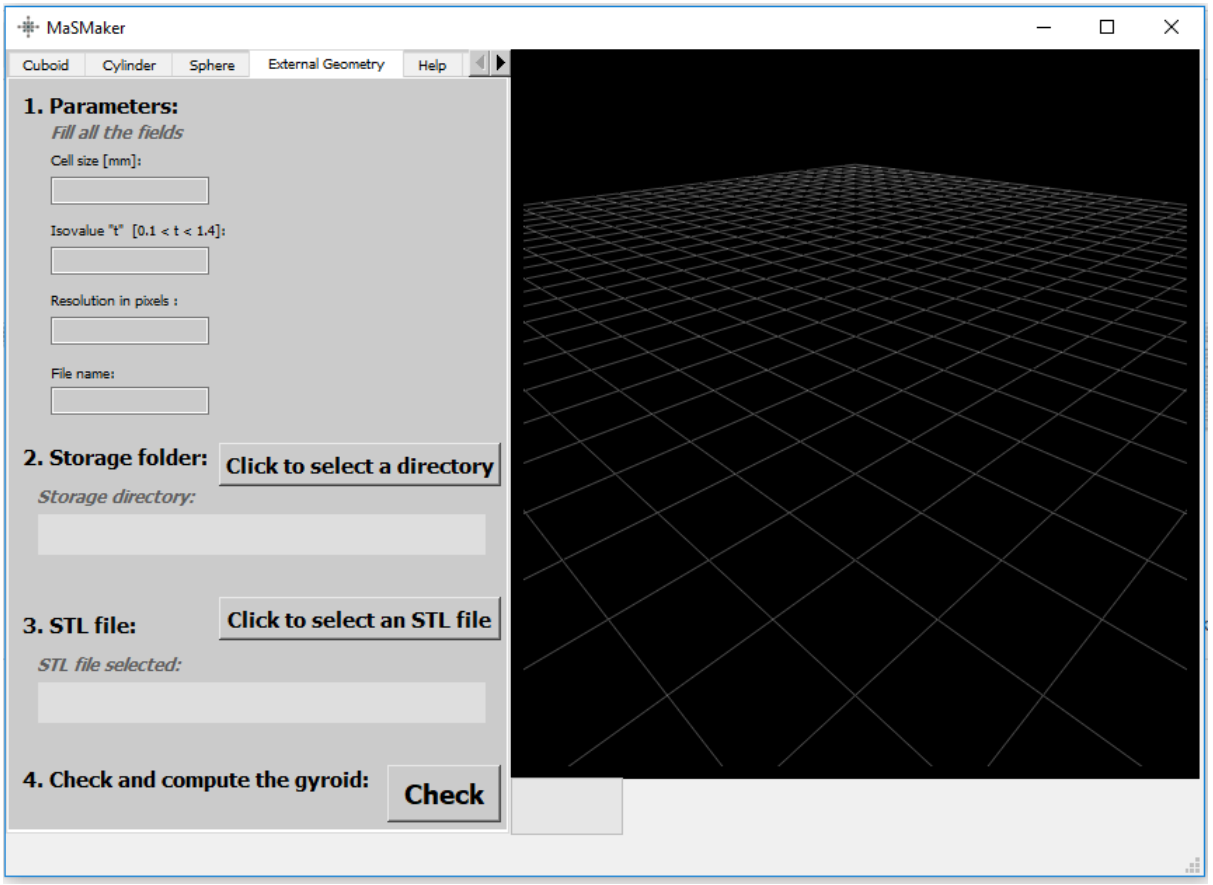
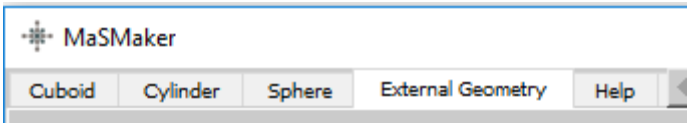
Tutorial 2. How to integrate gyroids into arbitrary geometry.

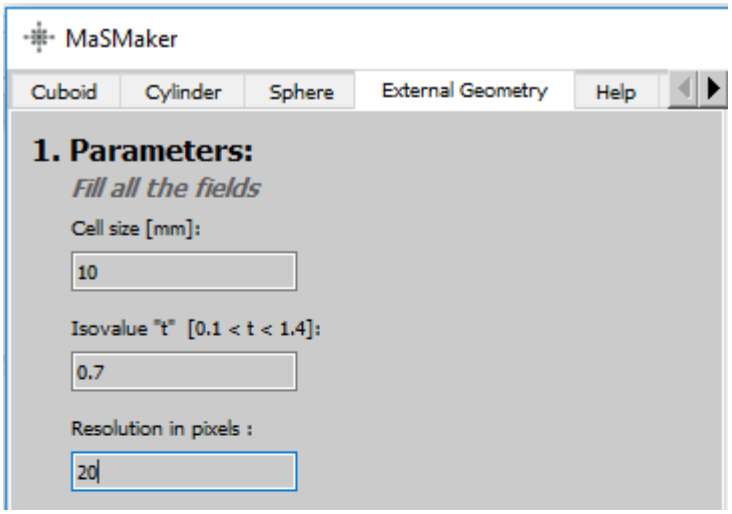
Launch MaSMaker to see the GUI. You will need to provide your registered email and associated license key to start working.



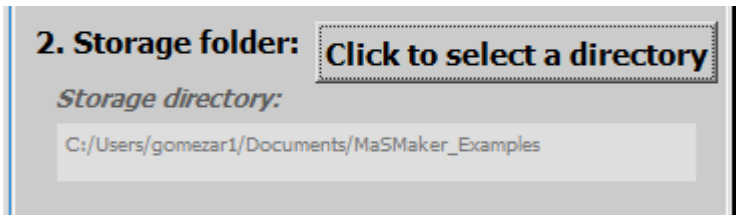
1. Select the tab of External Geometry



2. Introduce the unit cell parameters: cell size (mm), isovalue (“t”), and resolution.



3. Type a filename and browse for a location to save the final STL file generated by the software.

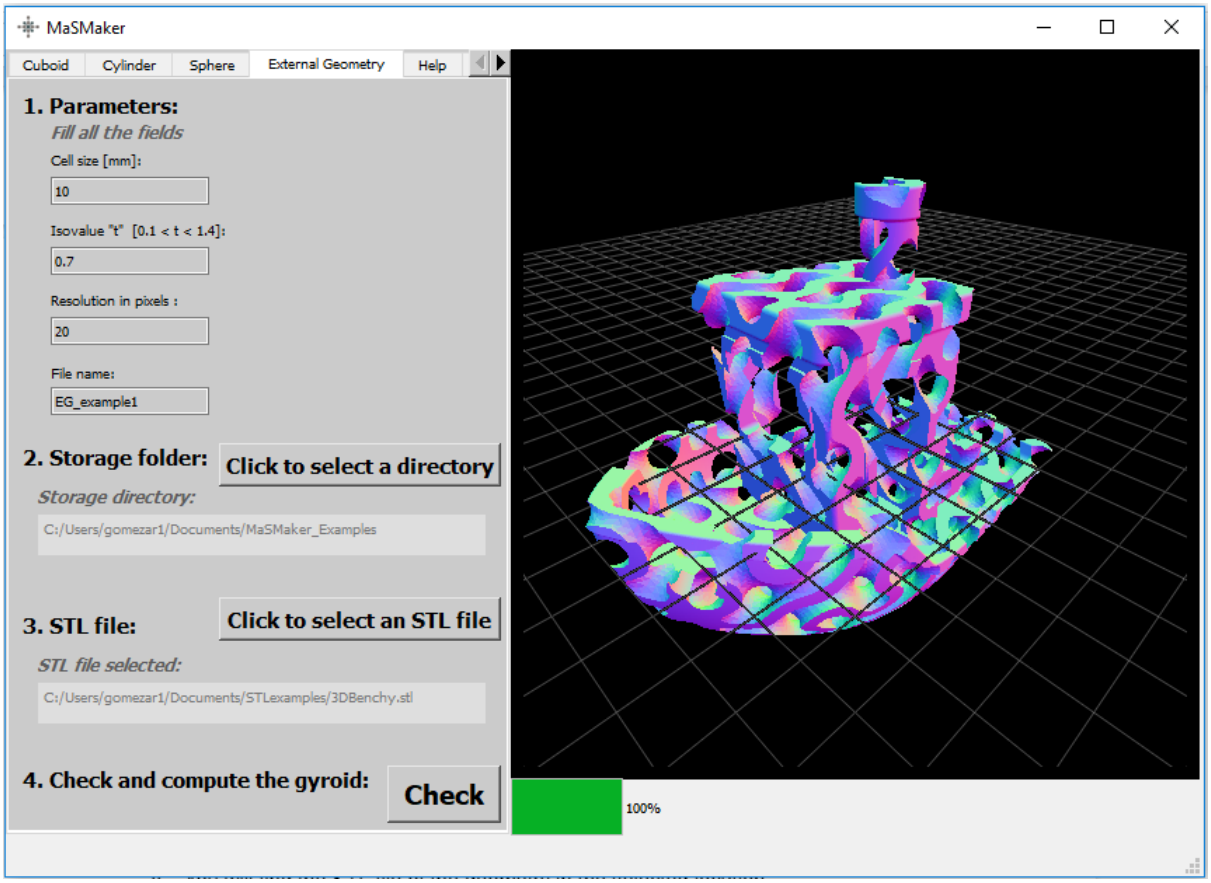


4. Browse to select the STL file with the geometry in which you want to integrate the gyroids. It is recommended to check the STL file for errors before importing in MaSMaker, the presence of errors in the STL file can generate errors in the gyroid's integration process with this software. The STL file used for this tutorial can be found in: https://github.com/CONMAD-CIDESIMX/MaSMaker/tree/main/tutorials/STLfiles (Note: The employed file in this example was repaired using Meshmixer software)

5. Click on "Check", if there is no missing information, or there is no other existing file with the same name, the button will change to "Run".

6. Click on "Run", a green bar will show you the creation progress.

7. Finally, you can visualize the final geometry in the interactive 3D viewport where common operations such as zoom in/out and rotations can be performed



8. You will find the STL file of the geometry in the selected location.