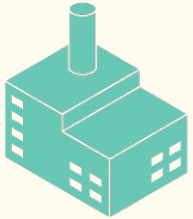
3D Models Optimisation for Grey Resin Prints



SHOP3D.IO

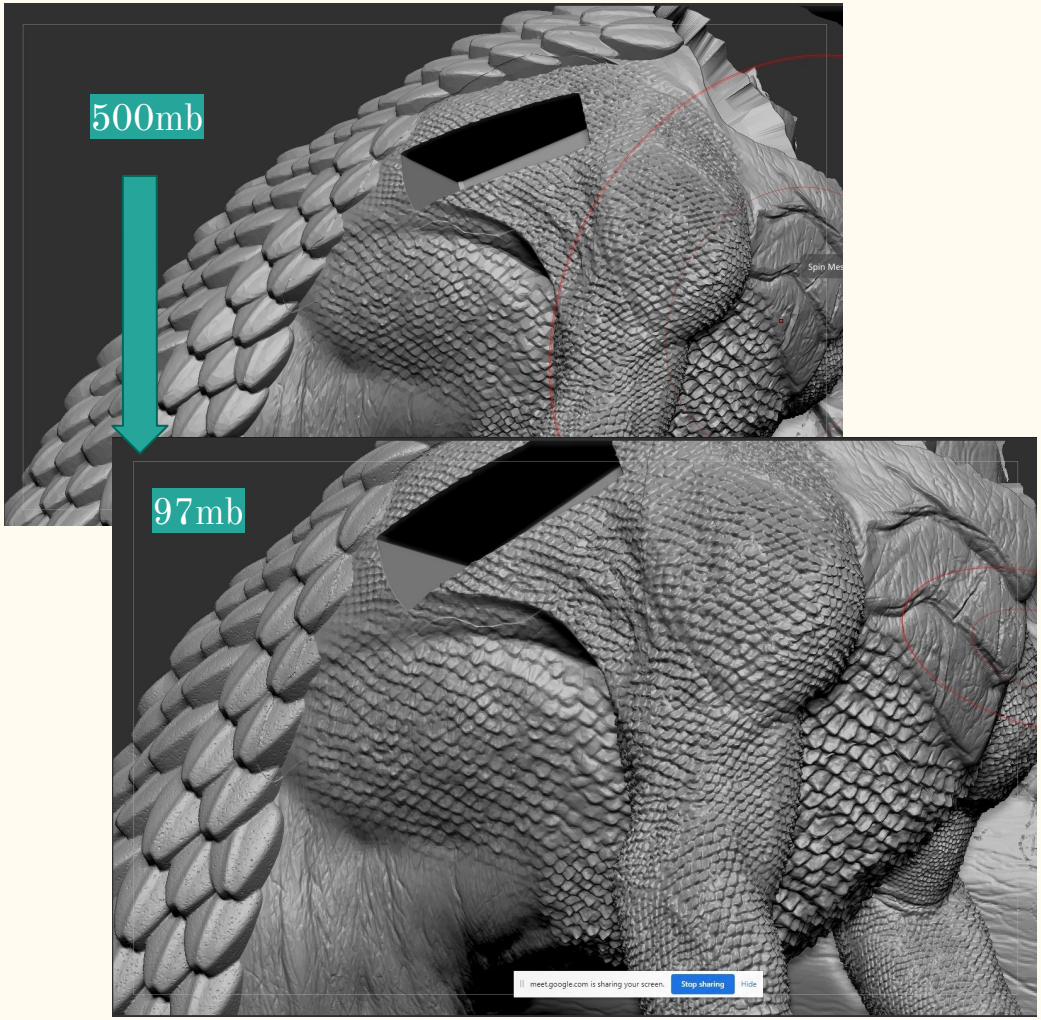
Fulfilment Powered by 3DC

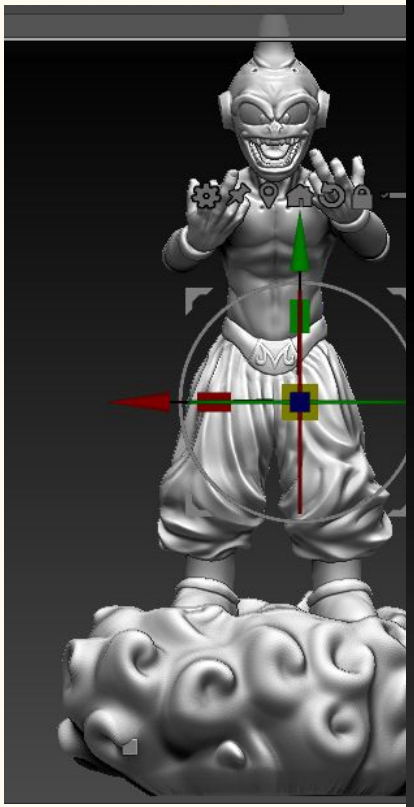
File Format & Size

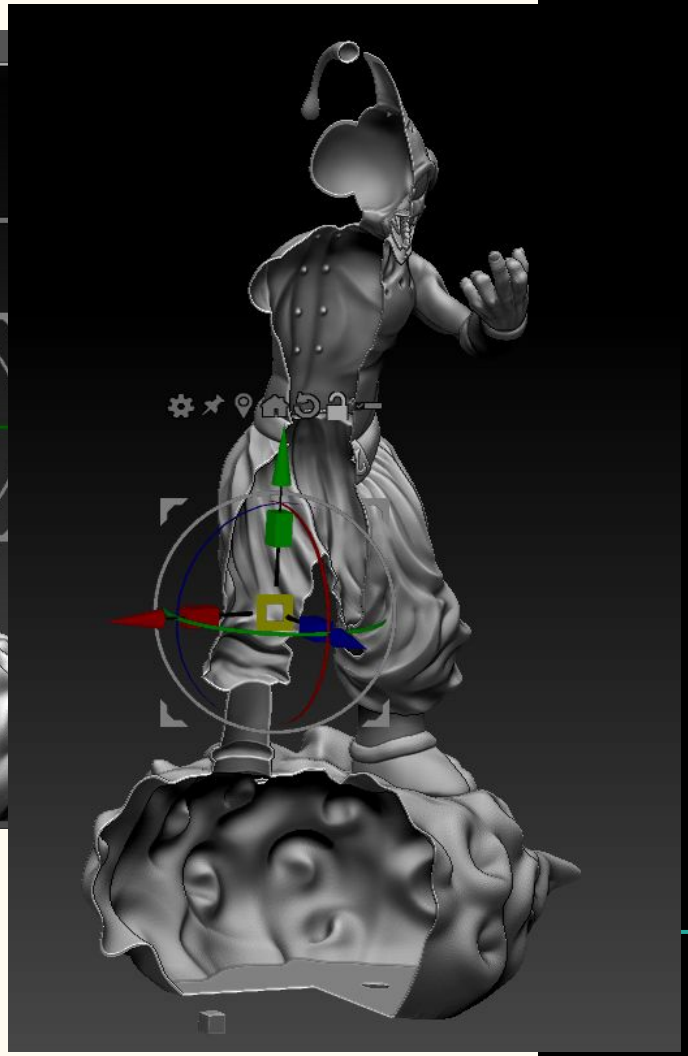
The format required for 3D printing in grey resin is .STL or .OBJ

All models have to be under 100mb

Decimation process helps to reduce the file weight without dramatically decreasing details quality



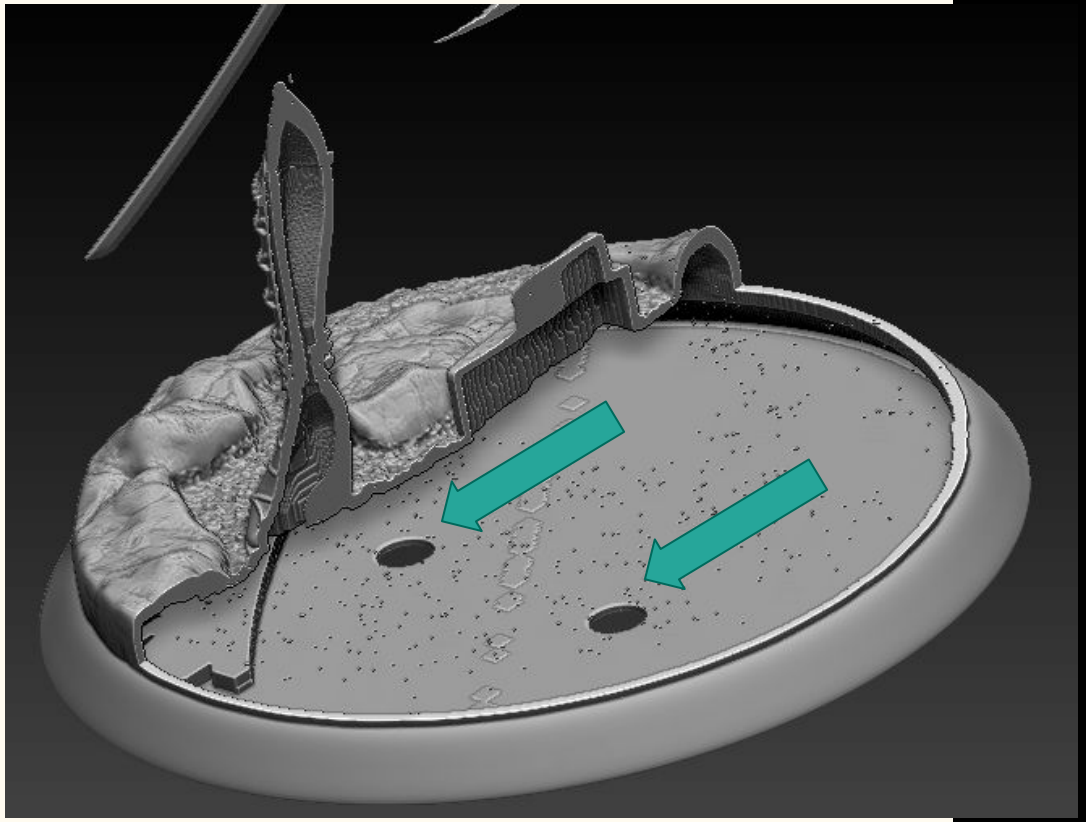




Hollowing

Hollowing of the model will reduce the manufacturing cost, because the volume would be lower.

Minimum wall thickness required for printing in Grey Resin is 3mm



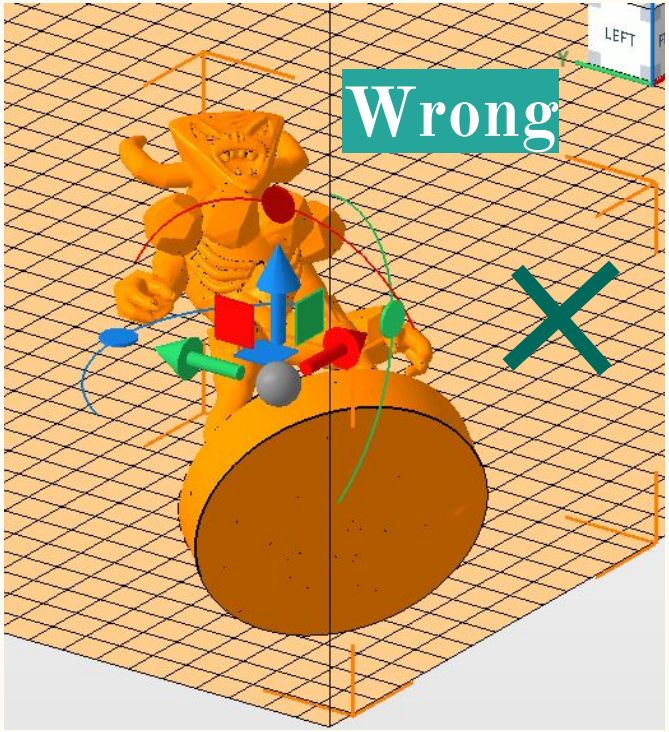
SLA printing technology requires “escape hole(s)” in the model to drain out material. These should be ideally based where you can’t see them so underneath the base or behind the model is best

There should be one or two holes minimum 3.5mm in diameter

Dimensions & Orientation

For the model to be accessible for grey resin it has to have the correct orientation to fit the bed size, this can mean flipping/rotating the model, so that your longest dimension stills fits within the print bed parameters

Print bed size for grey resin is L115 x W66 x H153 mm



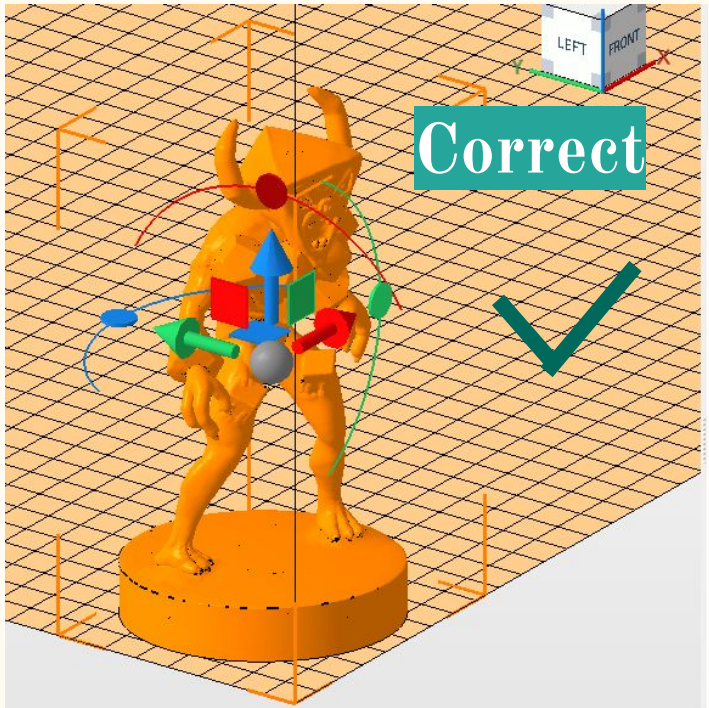
Percentage: X: 100.00% Y: 100.00% Z: 100.00%

Target Size: X: 127.47 mm Y: 135.42 mm Z: 96.32 mm

Center: X: 72.40 mm Y: 66.79 mm Z: 48.16 mm

Fixed Scaling Ratio Free Scaling Ratio

Apply Reset



Scale Factor: X: 1.00 Y: 1.00 Z: 1.00

Percentage: X: 100.00% Y: 100.00% Z: 100.00%

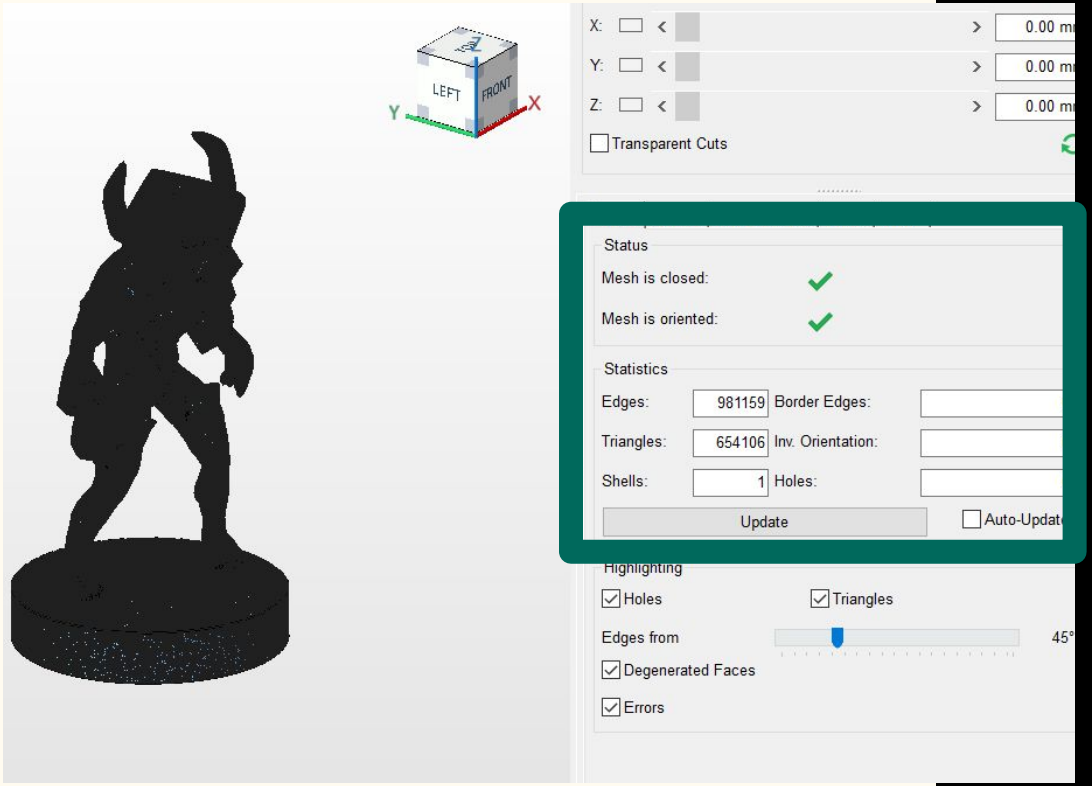
Target Size: X: 83.90 mm Y: 74.23 mm Z: 141.74 mm

Center: X: 41.95 mm Y: 37.12 mm Z: 70.87 mm

Fixed Scaling Ratio Free Scaling Ratio

Apply Reset

Mesh & Details



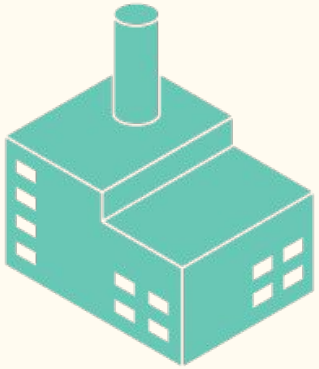
Mesh needs to closed, oriented and single

Minimum details thickness - 2mm

We recommend Autodesk Netfabb for checking and healing 3D models. Free trial available

https://www.autodesk.com/products/netfabb/overview

AUTODESK® NETFABB®



If you have any questions or require assistance, please contact us at

info@shop3d.io