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Subject: Problem uploading file  
Posted by [Jermm](#) on Sat, 08 Dec 2012 03:23:14 GMT  
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Hello, I am new to shapeways and have been working on my first project. A ring, for a really good friend of mine with inscriptions.

since it is a ring I need to file to be printed just as I created it in CAD, or it wont fit, however when I do this, the dimensions are not accurate and the ring is either too large or too small. What am I doing wrong here? It is a .stl file exported from Autodesk Inventor.

I tried meters, inches, and (mm? whatever the third option was) but none are correct.

thanks you

I will attach the file if it helps..

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#### File Attachments

1) [kizzie ring 2.stl](#), downloaded 26 times

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Subject: Re: Problem uploading file  
Posted by [Fredd](#) on Sat, 08 Dec 2012 04:01:30 GMT  
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Okaaysy, what inner radius do you need for the ring(Ring size?) Post it, you are set

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Subject: Re: Problem uploading file  
Posted by [stonysmith](#) on Sat, 08 Dec 2012 04:31:09 GMT  
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Your cad program is reporting the units as inches, but it's getting uploaded as millimeters. Grab a copy of Netfabb Basic and scale your model up by 25.4 then upload it as millimeters.

But.. be warned. You've got the engraved lettering at a depth of +2mm with an average width of only 0.3mm Are you wanting to have this done in Sliver?

From the Silver materials page: The width of a detail must be the same or greater than how far it sinks in from the surface.

Use a bolder font and/or don't sink the letters so deep into the ring.

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Subject: Re: Problem uploading file  
Posted by [Jermm](#) on Sat, 08 Dec 2012 05:53:09 GMT  
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ring size 7, 8.65 mm inside radius.

ps: I updated file so use that.

thank you!

#### File Attachments

1) [Shadow proves the light.stl](#), downloaded 26 times

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Subject: Re: Problem uploading file  
Posted by [Fredd](#) on Sat, 08 Dec 2012 19:28:28 GMT  
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well, its dimensions were 2.33 x .508 x 2.33. If you export as a stl, scale it by 10, set at upload at SW to mm. SW will get dimensions of 23.3mm x 5.08mm x 23.3mm. Same as CM 2.33 x .508 x 2.33.

I used scene data to check the original, inner radius matched.

If your program supports dae export, all you would have to do is set units to cm, export as a dae. No scaling needed then, since SW recognizes scene data for .dae files, and do not have to set upload measurements.

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Subject: Re: Problem uploading file  
Posted by [stop4stuff](#) on Sun, 09 Dec 2012 07:56:21 GMT  
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Scaled up by 10 and treated as mm, the ring in the latest stl file has an ID of 17.3mm.

Scaled file attached.

Paul

stop4stuff Modeller for hireShapeways ShopTwitterYouTube

## File Attachments

1) [Shadow proves the light-x10-scale.stl](#), downloaded 33 times

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Subject: Re: Problem uploading file  
Posted by [Fredd](#) on Mon, 10 Dec 2012 01:34:10 GMT  
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For an experiment, what material volume did you get Paul. I wound up with .87cm cubed

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Subject: Re: Problem uploading file  
Posted by [Jermm](#) on Mon, 10 Dec 2012 04:53:48 GMT  
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Thank you everyone for the help! I was actually able to figure it out myself! (incorrectly though... oops) I scaled it down to get .514 instead of .505 by accident I also ordered it when I did that! luckily it wasn't a big difference. I am very new to this stuff haha.

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Subject: Re: Problem uploading file  
Posted by [stop4stuff](#) on Mon, 10 Dec 2012 11:41:22 GMT  
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Fredd wrote on Mon, 10 December 2012 01:34For an experiment, what material volume did you get Paul. I wound up with .87cm cubed

NetFabb gives 0.90cc at 10x scale.

Paul  
stop4stuff Modeller for hireShapeways ShopTwitterYouTube

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