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..

File Attachments

1) kizzie ring 2.stl, downloaded 15 times

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

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.

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 16 times

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.

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

File Attachments

1) Shadow proves the light-x10-scale.stl, downloaded 24 times

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

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.

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

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