

New Video! Updates to the Vase Scan, Responses, and the STL file!

Ancient Egyptian Vase Scan Update! STL file, More Analysis - and Between the Lug Handles



This video is an update and continuation from my last video diving into the structured light scanning results from a pre-dynastic, ancient Egyptian granite vase.

Check that out first if you haven't seen it: <https://youtu.be/WAyQQRNoQaE>

In this one, we get into some further analysis (including the area between the vase handles) and I'm happy to say the full scan file or STL file is now available, you can download it right here (below) in this post!

I also get into some of the response generated by the last video, and share with you the rest of my conversation with Alex, Nick and Adam.

[Predynastic Vase Scan STL](#)

[CLICK HERE TO DOWNLOAD](#)

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B V / February 19, 2023 / Video / Uncategorized

24 thoughts on “New Video! Updates to the Vase Scan, Responses, and the STL file!”



Ian Hawkes

February 19, 2023 at 11:32 pm

Hi, i find your effort to investigate and work very interesting. When i have some spare cash i am going o send you it.

ps: cannot download the STL file



Ian

February 19, 2023 at 11:34 pm

yes, file downloaded, no worries, thanks x



Andy

February 20, 2023 at 12:05 am

thank you

 **Adel Belmahi**

February 20, 2023 at 12:17 am

I don't know how to thank you !

 **Clearbluesky**

February 20, 2023 at 1:30 am

awesome stuff! ancient water powered/steam powered CNC/lathe tech? ultrasonic/vibratory tools? or aliens 🤔

 **Andy**

February 20, 2023 at 9:38 am

Steam powered Computer Numerical Control – unlikely

 **Bill Seiler**

February 20, 2023 at 1:43 am

Download of stl file was OK.

Attempt to slice stl file for 3D printing not working?

When imported into slicer, vase is very small. I had to scale it up.

Could you publish the height of the vase so I can scale correctly?

When I slice the vase a layer gap develops where the holes are in the handles?

There may be missing data?



February 20, 2023 at 1:53 am

I don't believe the inside was scanned with the structured light process that was used. You might need to fudge it or create a cylinder based on the mouth. All the analysis was to the outside of the vase.



February 20, 2023 at 9:44 pm

I did get it to 3D print by using a stl repair tool.

Anybody know how tall this vase is?

Looks to be about 8" in the video.

Thanks Again!



February 21, 2023 at 7:10 am

The file is in inches. Scale the whole model by 25.4 and you will get the correct size in millimetres.

 **Jonny Anonymous**

February 20, 2023 at 7:54 am

You must import it as STL in imperial units (inches) not metric.

Before running slicer, you must most likely prepare the file (closing holes and so on). This is a model from scan, probably not intended for printing without additional treatment.

By the way, what kind of data processing was used to create a model (smoothing)?

 **Leo Moroz**

February 20, 2023 at 12:20 pm

I am pretty certain that the height is 4.72 inches. I am attempting to 3d print it as well, you would need to solidify the model first in Fusion360 or some other CAD software because the inside of the vase was not fully scanned and neither were the insides of the handles. Then scale it to the correct height in your slicer.

 **Chris Cronkrite**

February 20, 2023 at 8:34 pm

Love your work Ben, I downloaded the STL file, was going to 3D print in with Cura, but when I imported the vase, it was microscopic. I can resize it, but wanted it to be the same size as the original. Do you know how tall the vase is? Thank you, keep up the hard work.

 **Russ**

February 20, 2023 at 10:12 pm

It may be interesting to use x ray micro analysis and EDS to see if there is any material left on the surface that doesn't belong. This may give insight into what materials were used to make the part. Some of the grain boundaries between the hard and soft stone may contain interesting content.

Also CT analysis of some of the objects would give a lot of detail to the parts we can't see well.

 **Azzy**

February 20, 2023 at 11:06 pm

UnchartedX! Sending you an email about some laser scan data I had from a project in Luxor (VotK) that might be of interest.

 **Corey**

February 21, 2023 at 6:01 am

the STL was missing some geo preventing 3d printing, so i made changes to the mesh. the edit can be downloaded over at my sketchfab '<https://skfb.ly/oE7GL>'



Bryan Kaufman

February 22, 2023 at 4:10 am

Thank you so much for providing this file! Will there be further analysis of the interior and lug holes to complete the file? I hope to be able to determine the equation of the curvature of the ellipsoid, and matching the inner and outer profiles may further demonstrate an anomalous technology at work.



greg peart

February 22, 2023 at 12:09 pm

I have imported the stl file into Blender, but the scale is not correct, is there any measurements for the diameter , height etc available?

Also it was not centered on $x, y = 0$, so when rotated on z axis, it is not aligned.

I have started to adjust it to correctly center it, I am willing to share the file once I have reset it so it is pretty much perfect, the measurements would be helpful.

Also I added horizontal and circle guides for various diameters, it is incredible how fine the tolerences are!



greg peart

February 25, 2023 at 10:16 am

I just wanted to add an interesting observation my friend made (He was a fitter and turner, and has used Cnc machines for metal working.) He says based on the surface finish of the vase, that it was not made on a lathe. He said it shows no sign of lathe work, or even Cnc tooling marks, based on his industry experience, he has inspected a lot of Cnc machining and says this is different technology.(Maybe chiseled somehow, but he was pretty baffled by it). Now I am really thrown, as I had been assuming the whole time it was made on a lathe. To be continued, I will upload my file to Sketchfab including the rotational animation, for public examination, once I have taken it as far as I can and am happy with it..

 **Sami Grek**

February 23, 2023 at 12:13 pm

Hello,

I made some testing on Vericut Machine simulation program on the STL file.

And found it being a really accurate on the concentricity of the outside surface to inside of the lip.

I used probe function to set datum on the centre of the inside lip and lined up top of the lip being parallel to XY-axis within 0.005mm and then checked concentricity of the outside and found it being concentric within 0.03mm, so being very accurate.

 **Bill Walker**

February 23, 2023 at 7:52 pm

This is great to see – full public access to the raw scan data.

This is __science__ as it should be, and we need more of it!

Are there plans to publish the assessment documents with regard to parallelism, perpendicularity, concentricity, etc? I'd like to render some diagrams showing the key features with regard to the primary datum reference planes, axes, and points.

I helped some associates develop some nice granite textures, and they have been applied to a 3D render, in case anyone would like to see that / DIY.

<http://news.povray.org/povray.general/message/%3C63f7920e%241%40news.povray.org%3E/#%3C63f7920e%241%40news.povray.org%3E>



ralph ellis

February 24, 2023 at 12:30 pm

As with other commentators...

Please could we have the basic dimensions of the vase, to define the STL file properly. Just the height and mouth diameter would do.

Thanks,
Ralph



greg peart

February 26, 2023 at 12:18 am

Here is the basic rotation animation on Sketchfab, note that the speed can be adjusted when viewing the model. I have put this up as a start, and will try to refine and upload better versions as I can.

<https://skfb.ly/oEvGB>



greg peart

February 26, 2023 at 7:18 am

This is an improved version of the model, am fairly happy with the result.

<https://sketchfab.com/3d-models/pre-dynastic-egyptian-vase-9d0564976fec4d718aca1d661cec212a>

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