

Headless Gourd Shaped Tenor Ukulele for 300mm Printers



Big.One

[VIEW IN BROWSER](#)

updated 12. 4. 2022 | published 30. 3. 2022

Summary

Some has asked me about how to print my gourd shaped ukuleles (e.g. <http://www.thingiverse.com/thing:1868201>) on...

[Hobby & Makers](#) > [Other Ideas](#)

Tags: [ukulele](#) [musicalinstrument](#)

Some has asked me about how to print my gourd shaped ukuleles (e.g. <http://www.thingiverse.com/thing:1868201>) on smaller printers as the unibody design requires delta style printers that can print the unit vertically with ~500mm height and 200mm x 100mm on the X-Y plane.

Although the use case of accommodating smaller printers are anticipated in my Gugulele scripts (<https://github.com/bguan/gugulele>), it may be unclear to casual users how to drive the parameters to make it happen. So I have generated this Tenor sized ukulele model (scale length 430mm ~17") to make it possible to print on printers with Print Size (X Y Z) of at least 300mm x 200mm x 60mm, and the model is meant to be printed in a horizontal fashion.

The pieces are to be glued together. The screws are used for decorative and alignment purpose. M1.6x12 for fretboard long holes e.g. <http://www.amazon.com/dp/B00XP4OD5Q>

and M1.6x4 for body, bridge and fretboard short (mid-line) holes e.g. <https://www.amazon.com/dp/B00XP4ZWY2>. Through body grooves are there for 2 carbon fiber rectangular rods (e.g. <http://www.acpsales.com/125-x-.325-Rectangular-Rod.html>) to counter the strain from string tension. The tuner holes are placed at the tail end, with design that is compatible with most ukulele and guitar tuners ranging from \$5 to \$50, but some rimming may be necessary.

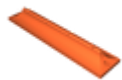
I haven't printed and made this particular model yet, so please let me know if you've made one and succeeded.

Category: 3D Printing

Model files



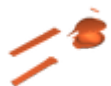
tenor_fvsb_face.stl



tenor_fvsb_brdg.stl



tenor_fvsb_neck.stl



tenor_fvsb.stl



tenor_fvsb_fretbd.stl



tenor_fvsb_body.stl

[Find source .stl files on Thingiverse.com](#)

License ©

This work is licensed under a
Creative Commons (4.0 International License)



Attribution—Noncommercial—No Derivatives

- ✗ | Sharing without ATTRIBUTION
- ✗ | Remix Culture allowed
- ✗ | Commercial Use
- ✗ | Free Cultural Works
- ✗ | Meets Open Definition