

Affordable Rock Tumbler - NEMA17 Version for CNC routing



Arofarn

VIEW IN BROWSER

updated 12. 4. 2022 | published 26. 1. 2021

Summary

Great for polishing 3d print with brass/copper/bronze and other metal-filled filaments (and rocks of course !)

[Hobby & Makers](#) > [Tools](#)

Tags: [cnc](#) [freecad](#) [brassfill](#) [polish](#) [rocktumbler](#)
[rotarytumbler](#)

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Remix from : <https://www.thingiverse.com/thing:2744886>

Almost fully redraw with the aim to make the structure with a CNC router and use part I already have (NEMA motor, 8 and 10mm rods, HDPE, electronic parts...).

Notes :

- I have use 8mm rodes for rotating axis and 10mm for structure
- You can print the structure if you want, but the original one will use less material:

- use .stl for printing and .dxf for importing in your CNC software
- the frame is made of 15mm thick HDPE but wood or metal can be used if your CNC router is able to handle it.
- the electronic box will only fit the parts I use in the way I soldered them. You use something else to drive the motor, just don't print it. More details, BOM, photos, code and other sources on my git repository:

<https://framagit.org/arofarn/polisseur>

You can find vibration dampening feet here:

<https://www.prusaprinters.org/prints/53965-vibration-dampening-feet-for-rock-tumbler-w-squas>

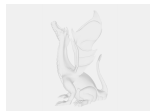
EDIT : Add FreeCAD source file

EDIT2 : Add gear protection cover (to keep finger safe)

Model files



insert_110mm_block.stl



frame.dxf



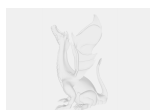
gear_protect.stl



electronic_enclosure.stl



frame_left.stl



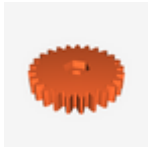
polisseur.fcstd



pulley.stl



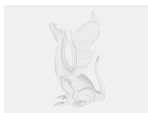
frame_right.stl



big_gear.stl



electronic_cover.stl



spacer.dxf



small_gear.stl



spacer.stl

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

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