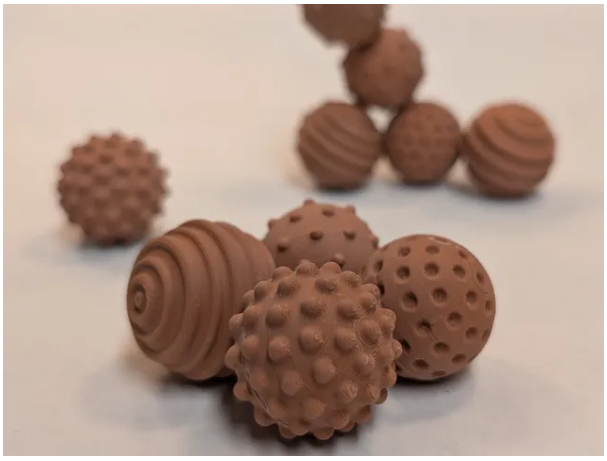

Magnetic Acupuncture Fidget Toys

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VIEW IN BROWSER

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Summary

A printed sleeve for magnetic fidget spheres creates satisfying textures and reduces noisy clacking.

1.65 hrs	2 pcs	0.15 mm	0.40 mm	PLA	16 g	Prusa MK4

Toys & Games > Other Toys & Games

Tags: toy spinner toys ball magnet fidget sphere texture scratcher acupuncture asmr scratchers

UPDATE: I found that the “nubby” sphere broke too easily when dropped, so I included a few updated STLs with thicker walls. I also discovered how much fun “fuzzy skin” is, so I included a new smooth texture sphere which can be sliced with the fuzzy skin option in PrusaSlicer. I used a thickness of 0.5. I haven't updated the 3mf/bgcode files or the larger version STL files yet, but if there is enough interest I will.

Spherical magnetic fidget toys inspired by acupuncture massage balls. There are 5 different textures - wavy, golf, bumpy, nubby and (new!)

smooth. There is a larger and smaller version with dimensions noted in each file. There are the following two ways to print:
You can print the two pieces of each sphere individually, insert the magnet after printing, and then super glue the two pieces of the sphere together.

- Pros of this are that all the surfaces come out uniform and smooth.
- Con is that you can see the glue line.
- 15% infill
- No Supports
- Recommend using a smooth sheet when printing PLA to reduce the visibility of the seams.

OR

I've also included whole part prints in which you can pause the print mid-production, add the magnet, and then finish printing.

- Pros is no glue seam.
- Cons is you will need supports for the base of each sphere causing there to be a texture difference where the supports attached.
- 15% infill
- Supports Needed on Baseplate Only

You can use whatever magnets you have on hand. I experimented with the following:
25mm spherical magnets: https://a.co/d/8ce265w with the **larger size prints**. These are a bit too big for my liking, but magnets were nice and strong.

20mm spherical magnets: https://a.co/d/bdL9SlV (The image in the listing says 1.26in but that is incorrect.) with the **smaller sized prints.** Goldilocks! These were my favorite.
10mm x 5mm cylinder magnets: **https://a.co/d/89MrCqJ** with the **smaller sized prints.** These were some magnets I already had lying around. They were too small.

The magnets are able to roll around inside of the sphere's cavity which makes a bit of a rattle but allows them to spin to make the best contact with nearby spheres. The spherical magnets are a bit quieter, but it is just a personal preference.
If you're interested in making your own textures or resizing the spheres, here is the Onshape link:
https://cad.onshape.com/documents/490c8e355b9a796aa98d80e1/w/4195fd43fae9908dec9e46d8/e/12a0a0784b1e5689798ab792?renderMode=0&uiState=670f2f0cfae8f63b5c747dab

Model files

Large Version STL 12 files

nubby-part-1-larger-version.stl

25mm inner diameter 2.54mm walls

nubby-part-2-larger-version.stl

25mm inner diameter 2.54mm walls

nubby-whole-part-larger-version.stl

25mm inner diameter 2.54mm walls

waves-part-1-larger-version.stl

25mm inner diameter 2.54mm walls

waves-part-2-larger-version.stl

25mm inner diameter 2.54mm walls

waves-whole-part-larger-version.stl

25mm inner diameter 2.54mm walls

golf-part-1-larger-version.stl

25mm inner diameter 2.54mm walls

golf-part-2-larger-version.stl

25mm inner diameter 2.54mm walls

golf-whole-part-larger-version.stl

25mm inner diameter 2.54mm walls

bumpy-part-1-larger-version.stl

25mm inner diameter 2.54mm walls

bumpy-part-2-larger-version.stl

25mm inner diameter 2.54mm walls

bumpy-whole-part-larger-version.stl

25mm inner diameter 2.54mm walls

Small Version STL

18 files

nubby-part-1-small-version.stl

22.86mm inner diameter 1.7mm walls

nubby-part-2-small-version.stl

22.86mm inner diameter 1.7mm walls

nubby-whole-part-small-version.stl

22.86mm inner diameter 1.7mm walls

waves-part-1-small-version.stl

22.86mm inner diameter 1.7mm walls

waves-part-2-small-version.stl

22.86mm inner diameter 1.7mm walls

waves-whole-part-small-version.stl

22.86mm inner diameter 1.7mm walls

bumpy-part-1-small-version.stl

22.86mm inner diameter 1.7mm walls

bumpy-part-2-small-version.stl

22.86mm inner diameter 1.7mm walls

bumpy-whole-part-small-version.stl

22.86mm inner diameter 1.7mm walls

golf-part-1-small-version.stl

22.86mm inner diameter 1.7mm walls

golf-part-2-small-version.stl

22.86mm inner diameter 1.7mm walls

golf-whole-part-small-version.stl

22.86mm inner diameter 1.7mm walls

smooth-part-1-small-version-thicker-walls.stl

22.86mm inner diameter 2mm walls

smooth-part-2-small-version-thicker-walls.stl

22.86mm inner diameter 2mm walls

smooth-whole-part-small-version-thicker-walls.stl

22.86mm inner diameter 2mm walls

nubby-part-1-small-version-thicker-walls.stl

22.86mm inner diameter 2mm walls

nubby-part-2-small-version-thicker-walls.stl

22.86mm inner diameter 2mm walls

nubby-whole-part-small-version-thicker-walls.stl

22.86mm inner diameter 2mm walls

fidget_toys-larger-version.3mf

25mm inner diameter 2.54mm walls

fidget_toys-small-version.3mf

22.86mm inner diameter 1.7mm walls

Print files

fidget_toys-larger-version_04n_015mm_pla_mk4is_2h25m .bgcode

PLA 0.40 mm 0.15 mm 2.41 hrs 27 g Prusa MK4

25mm inner diameter 2.54mm walls

fidget_toys-small-version_04n_015mm_pla_mk4is_1h39m.bgcode

PLA 0.40 mm 0.15 mm 1.65 hrs 16 g Prusa MK4

22.86mm inner diameter 1.7mm walls

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