

Print in place Fidget bearing

Kinetic

VIEW IN BROWSER

updated 10. 10. 2026 | published 10. 10. 2026

Summary

Print in place bearing

Hobby & Makers > Mechanical Parts

Tags: fidget fidgettoy gear printinplace 3dp printertest gearfidget tollerance tollerancetest

Do not print with silk PLA, just print with regular pla, preferably not matte PLA
I typically print overture PLA
Green and Blue colors generally are not as forgiving on tolerances. Silvers and bronze also can stick hard.
white, orange, and grey seem fine
Some orange PLA batches I fine to be near perfect on accuracy. 0.005 mm or better on the calipers to my amazement. White shrinks slightly .1mm to .05mm.
Olive green expands like crazy - would skip
regular green seems ok
To break free gently compress it to a slight elliptical shape and roll that eliptical shape around it to break any sticking planets up. Gently or you will break it or permanently distort it.
To make it spin even better use the **water trick** I discovered. <---- especially good on the other fidget rings out there. Just don't print it out of

PVA and put it in water because there will be nothing left of the print - LOL
The Water Trick:
Put it in water bowl or running under a tap and move it. It must move under the water. Sitting in water will do nothing. Move and work it in under water. After a while pull it out and dry it. When its fully dry it should spin well - dependent of course if your material is good and your printer did a good job.
PlanetaryBearing_OD115_ID90_H10_S127P6x38R139_b30_e0.1
I will consider some custom bearing designs, post makes, heart, and comments if you would like a new one. Need a ratio and I can try the math for it.

Model files



planetarybearing_od115_id90_h10_s127p6x38r139_b30_e... .stl

License

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

Attribution-ShareAlike

✖ | Sharing without ATTRIBUTION
✔ | Remix Culture allowed
✔ | Commercial Use
✔ | Free Cultural Works
✔ | Meets Open Definition