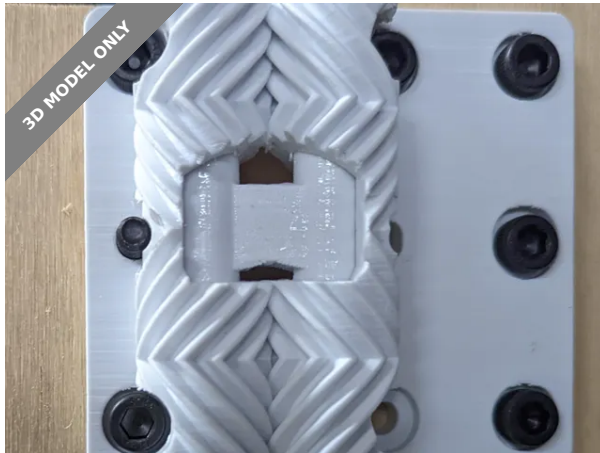




Print in Place Geared Hinge



E. Soderberg

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Summary

Geared Hinge, print in place, tested with 210 lbs/95 KG with PLA prints.

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Tags: [gear](#) [hinge](#)

This is a remix of prior geared hinge updated so that it can be printed in place as a single assembly. Tested with 210lb/95KG of weight using two hinges (as shown in second picture) with no sign of failure or sagging. Printed in PLA / .4 nozzle / .16 layer height/no supports. Print with gear columns vertical. I used 7 perimeters for the print used in test - probably overkill for most needs, but wanted to see what the basic model could do.

Even with a clean print, it takes a good bit of torque to get initial rotation, should swing freely after that. STL defaults to upside down on build plate when it opens, flip for best results.

Link to [Solid Works Gear Generator app](#) for your own designs with gears.

Also added mesh file for a double height version for even heavier loads.

Smaller versions available at <https://www.prusaprinters.org/prints/124967-print-in-place-mini-gear-hinge-assortment>

This remix is based on



Geared Hinge

by E. Soderberg

Model files



pip_hinge_internal1.3mf



pip_double_hinge.3mf



pip_hinge.stl



piphinge.step

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