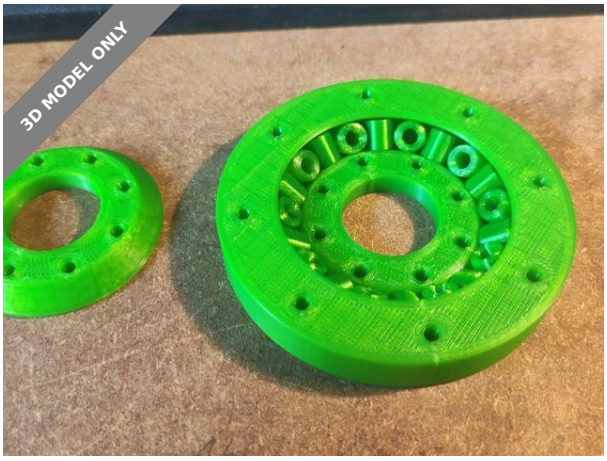

Cross Roller Bearing

Jannik Landgraf

VIEW IN BROWSER

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Summary

Low tolerance 3D-printed roller bearing.

Hobby & Makers > Mechanical Parts

Tags: bearing figet rollerbearing crossrollerbearing figettoy

The Design

Here is an alternative to 3d printed ball or gear bearings which are usually hard to print or have high tolerances (which is bad for bearings).

This bearing is designed to have low tolerances and to be easily 3D printable.
I recreated and adapted the model after a tutorial I found on YouTube

The original version of this model can also be found on Thingiverse: https://www.thingiverse.com/thing:2375124/files

Required Materials:

M3x12 Screws: 8x
M3 Nuts: 8x

For assembly use the provided pictures as a guide

Printing:

Nozzle: 0.4mm
Layer height: 0.2mm or less
Seam position: random
Material: PLA/PETG

Model files

roller_20x.stl

inner_ring_2x.stl

outer_ring.stl

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