

Planetary Gear Motor first draft open SCAD



usertogo

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Summary

Have been thinking quite a while now about this and am not sure if this will really ever be a realistically useful...

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Have been thinking quite a while now about this and am not sure if this will really ever be a realistically useful motor.

As it is it is completely untested and adjusted for tiny magnets of the following dimensions:

`wideM=4.8; // define the Magnet Width`

`longM=6; // define the Magnet length (this is the hight of the stack too)`

`deepM=3; // define the Magnet depth (this is the axis of magnetization)`

You have the option to sort all the magnets in one direction; or alternate the direction - the winding interval will depend on that, and I admit I haven't figured it out myself!

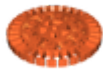
There is a method `cycleVis()`; to visualize the spinning of the magnets, there is also a method for animation.

I created a group <https://www.thingiverse.com/groups/electromotor-design> specifically for people that like the subject and colaboration - come and join!

P.S.: Meanwhile I printed a first test but the print in place gears are totally locked, and I have no idea yet how to configure the gap or achieve a part that can spin!

Category: DIY

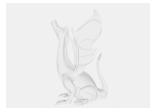
Model files



planetarygearmotorsc10p6h30c016.stl



planetarygearmotor10p6h30c016.stl



planetarygearmotor016.scad

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

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