



Nema 17 Stepper 5:1 Planetary Gearbox with 5mm shaft for GT2 pulley



Stanley

VIEW IN BROWSER

updated 12. 4. 2022 | published 1. 11. 2020

Summary

Nema 17 Gearbox with 5mm shaft, fits GT2 Timing Belt Pulley.

[Hobby & Makers](#) > [Electronics](#)

Tags: [gt2](#) [pulley](#) [gearbox](#) [nema17](#) [planetarygearbox](#)

Nema 17 Gearbox with 5mm shaft, fits GT2 Timing Belt Pulley.

Remix of: <http://www.thingiverse.com/thing:8460>

Cover is in two versions with or without 4mm holes for M3 threaded inserts.

Bill of materials:

Nema 17 stepper motor

M3 nuts 6pcs

M3 threaded inserts 4pcs (cover, Kerb Konus S-Lok PN: 860 000 030.800)

M3 self locking nuts 3pcs (planets)

M3 washers 3pcs

M3x8 grub screws 2pcs (sun)

M3x16 3pcs (planets)

M3x8 4pcs (stepper motor)

M3x12 4pcs (cover)

M5x30 1pcs (shaft)
M5 self locking nuts 1pcs (shaft)
695zz ball bearing 2pcs (shaft)
683zz ball bearing 6pcs (planets, 2pcs each)

Print instructions

Rafts: No

Supports: Yes

Resolution: 0.1mm - 0.2mm

Infill: 40% - 100%

Notes:

Filament: PET 1.75mm (<http://www.filament-pm.cz/>)

Sliced in: Cura 15.04.2

Nozzle: 0.4mm

Shell thickness: 1.2mm

Bottom/Top thickness: 1.2mm

Print speed: 30mm/s

Print temp: 235°C

Bed temp: 80°C

Planets and sun printed in 0.1mm layer height with 100% infill. Other parts in 0.2mm layer height with 40% infill.

Model files



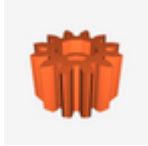
cover.stl



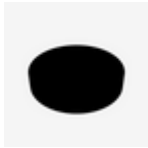
cover_inserts.stl



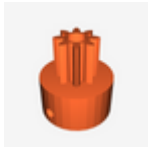
housing.stl



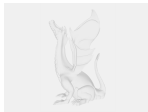
planet.stl



carrier.stl



sun.stl



nema_17_gearbox.skp

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

License

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



Public Domain

-
- ✓ | Sharing without ATTRIBUTION
 - ✓ | Remix Culture allowed
 - ✓ | Commercial Use
 - ✓ | Free Cultural Works
 - ✓ | Meets Open Definition