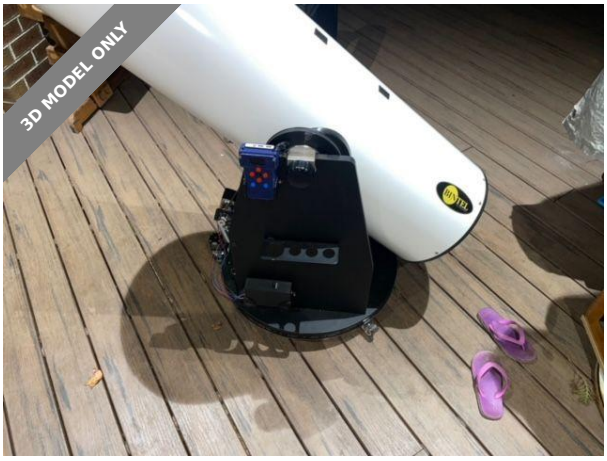

OnStep gears and related attachments for a Dobsonian telescope (customisable)

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VIEW IN BROWSER

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Summary

Solutions to assist in motorising a Dobsonian telescope

Learning > Physics & Astronomy

Tags: telescope onstep dobsonian

This is my method for attaching my nema 17 motors to a dobsonian telescope. The Az is universal, the alt bearings are specific to a Bintel / Zhumell dob. The second alt bearing is for a 8" Saxon / Skywatcher dob. The Fusion files are included and you can edit the parameters for your scope (I've tested the Bintel on a 8" and 12" and the Saxon/skywatcher on a 8" and 10" successfully)

I printed the Saxon bracket with the gears at the top. Gives a neater finish, but uses a fair amount of support, so I recommend perhaps using custom supports in your slicer of choice. If you do print in different orientations, make sure you erase supports around the gears!

Filament: PLA+

Layer height: 0.3mm

Infill: 15% - 20%

Wall line count: 3 (1.2mm total)

Model files

onstep_az_bracket.3mf

onstep_az_bracket_guide.3mf

Print 2 of these

bintel_12_alt_gear_320t_onstep.3mf

onstep_az_bracket-fusion-file.f3d

onstep-bintel-alt-gt2-toothed-gear-adjustable-fus.f3d

onstep_az_bracket-fusion-file.f3d

200t_saxon_or_skywatcher_alt_gear_onstep.3mf

saxon_dobsonian_alt_bearing_and_gear-v10.f3d

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