



## Winch & hoist toy



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updated 12. 7. 2024 | published 12. 7. 2024

### Summary

I designed this for an experiment that was later cancelled. As a result, I have only moderately tested the design and...

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I designed this for an experiment that was later cancelled. As a result, I have only moderately tested the design and I have not revisited it to make some improvements.

If I did it again, I'd make a relief for the nut that secures the stepper motor to the frame. I'd also tighten up the clearance between the 608zz bearings and their bore holes. As it is, you should put a small bit of hot glue on the bearings when installing. The motor shaft is something else that you should hot glue, and you want to put the glue between the motor shaft tip and the worm gear shaft bore. Squeeze together before the glue dries.

The winch spool is also something else that is glued together. I divided the spool into two pieces for better printing results.

Category: Hobby

# Model files

**winch\_v3.stp**

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**winch\_small\_frame.stl**

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**winch\_small\_frame.ipt**

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**spool\_end.ipt**

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**28byj-48\_5vdc.ipt**

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**worm\_gear1.stl**

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**winch\_v3.stl**

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**spool\_end.stl**

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**axle.ipt**

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**axle.stl**

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[Find source .stl files on Thingiverse.com](https://www.thingiverse.com)

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