

## Self reversing guide screw for cables, hoses etc.



Bruncione

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updated 23. 3. 2022 | published 22. 3. 2022

## Summary

Complex system for winding cables, hoses etc.

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Hi there!

This is system for neat winding cables, hoses etc. It is scalable to almost every size. I designed this one for winding garden hose (3/4"). It is little complex but I will try my best to explain how to make one of these for yourself. (Notice: It is completely my design so I give you permission to use it for your personal needs - industry applications are not allowed without my permission).

### WHAT YOU NEED:

1. M4x12mm screw - 6 pcs.
2. M3x10mm screw - 2 pcs.
3. Stainless steel rod - cca 1000mm
4. Wheel Bearing 16x10x6 - 10pcs.
5. Linear Bearing 25x12x6 - 1 pcs.

6. Plastic Rod fi20mm - Optional - you can print this out

#### ASSEMBLY:

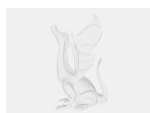
1. 3D print all construction parts from provided .step file (best PETG, 0.2mm, infill 10-15%)
2. **3D print Screw SR (see .step file)** - this is **most complicated part** so take your time in slicer settings. I printed screw SR in vertical position, 0.2mm, with brim 10mm, and speed of 30mm/s. No support is needed, just slow down print as much as possible. It is best to print with PETG+Carbon but it works with regular PETG.
3. 3D print PIN - use same material as for Screw SR.
4. Assembly all parts according to given pictures (if anything is not clear for you feel free to contact me)
5. Cut stainless steel rods:
  1. 250mm - screw SR (can be longer if you need for some pulley)
  2. 230mm - gliding
  3. 90mm - leading tubes x 4pcs

#### ADDITIONAL INFO:

This is complex part, so please take your time to study it before trying to make it. It is fully functional. This part is constructed for 3/4" garden hose with Screw SR step of 6.5mm. Screw rotates always in same direction but glider goes from one side to another continuously. It works for everything that needs to be winded from radius of 13mm up to 27mm. For other radiuses there should be changes made on Screw (step should differ). If anything goes wrong or you do not understand how it should work feel free to contact me:) I will be glad to share with you short video of working part (PM only).

P.S. In near future I will probably upload more advanced component with same purpose but currently I can not do this because of patenting procedure.

## Model files



**snail-guide-ver-40.step**

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