



## A vase in a vase in a vase in a ... (customizable)



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[VIEW IN BROWSER](#)

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## Summary

More of pen holders or tool organizers, but stackable inside of each other. Also nice to fidget with.

[Household](#) > [Office](#)

Tags: [organizer](#) [stackable](#) [screw](#) [vasemode](#) [penholder](#)  
[containers](#)

A spiral vase in spiral vase mode - but these can be stored inside of each other. If you need another one, just screw one of these out, and back in when you don't need it any more.

The lead angle is so steep, they unscrew themselves by gravity, which is quite some fun to fidget with.

You can use one as lid for a smaller one for a closed container, however it will unscrew when you pick it up unaware of that. Maybe use my [vase mode screw container](#) instead.

### Printing tips

If you use a 0.4mm nozzle, I recommend setting the **extrusion width to 0.6mm** for more stability. They are designed for that, but should work with smaller extrusion widths, too. Bigger extrusion widths (like 0.65mm for

0.6mm nozzles) might not slide out that easily (not tested, I have none). For customizing check below.

Just print some vases with consecutive shell numbers, like 0,1,2,3 (shown in the pictures).

I recommend printing **every other shell in a different layer height** for smoother operation (reduces friction and noise while those slide against each other). I tend to use coprime numbers (for the hundredth mm) like 0.15mm and 0.19mm.

I use 3 solid bottom layers.

The dimensions noted (d:diam, 70mm, h:height 100mm) refer to the base dimensions, i.e. inside dimensions of shell number 0, outside diameter is 5.4mm bigger than inside diameter. Higher shell numbers are 2mm wider and 0.6mm taller each. I also uploaded some negative shell numbers that are smaller and go inside shell 0.

I used recycled Prusament PLA.

## Customize

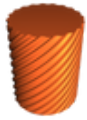
This model is parametric and customizable with OpenSCAD. Download OpenSCAD (it's completely free), load the .scad file, and change the parameters in the customizer. Press F6 to render (takes some seconds), then F7 to export as .STL.

**EDIT:** Added option in the scad file for chamfered top edge as requested; this makes it easier to slide another shell over as lid. A top-chamfered shell can not slide over another shell though.

## Model files

 **bigger shells** 15 files

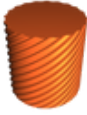
 **screw\_vase\_d70\_h100\_shell14.3mf**



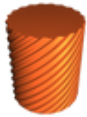
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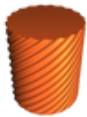
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**screw\_vase\_d70\_h100\_shell12.3mf**



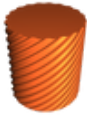
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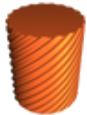
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**screw\_vase\_d70\_h100\_shell15.3mf**



**screw\_vase\_d70\_h100\_shell8.3mf**



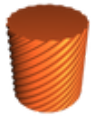
**screw\_vase\_d70\_h100\_shell3.3mf**



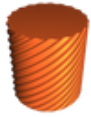
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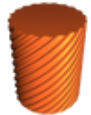
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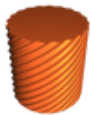
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**screw\_vase\_d70\_h100\_shell9.3mf**



**screw\_vase\_d70\_h100\_shell2.3mf**



**screw\_vase\_d70\_h100\_shell11.3mf**

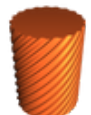


**thinner (negative shell numbers)**

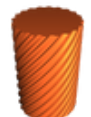
10 files



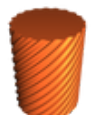
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**screw\_vase\_d70\_h100\_shell-2.3mf**



**screw\_vase\_d70\_h100\_shell-7.3mf**



**screw\_vase\_d70\_h100\_shell-1.3mf**



**screw\_vase\_d70\_h100\_shell-10.3mf**



**screw\_vase\_d70\_h100\_shell-6.3mf**



**screw\_vase\_d70\_h100\_shell-3.3mf**



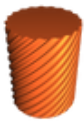
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**screw\_vase\_d70\_h100\_shell-4.3mf**



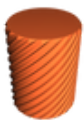
**screw\_vase\_d70\_h100\_shell-5.3mf**



**screw\_vase\_d70\_h100\_shell0.3mf**



**screw\_vase.scad**



**screw\_vase\_d70\_h100\_shell0\_chamfered\_top.stl**

☐ If you want to use shell 1 as lid

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