



Counterswirl Easter Egg 2024



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[VIEW IN BROWSER](#)

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Summary

A fun design for the Easter holiday



12.70 hrs



6 pcs



0.15 mm



0.40 mm



PLA



65 g



Prusa
MK3/S/S+

[Seasonal designs](#) > [Spring & Easter](#)

Tags: [toy](#) [container](#) [spring](#) [easter](#) [easteregg](#) [egg](#)

I've re-imagined my [Large Spiral Easter Egg](#) from last year. I've made it smaller, given it a wider base for stability, removed the openings so you can't see inside, replaced the magnetic attachment system with a simple click mechanism, and adjusted the contour (egg shape).

To open the egg, grab both halves, wiggle & pull apart. The bottom half has a slight ridge on 2 sides that clicks into a groove in the top. Because of that, it's easier to separate them wiggling in one direction than another. If wiggling one way doesn't work, try the other. It does get easier to open with use. When the pieces are together, hold one side and twist the other 360 degrees a few times and it will loosen up dramatically. You can also encourage it a little (if necessary) with a little sand paper.

Both pieces can be printed “right side up” so you can use 3-color filament or rainbow filament and have the colors match up.

Tightness of the pieces will vary based on a lot of factors, including scale, so I've provided 3 different versions of the bottom half. I've provided PrusaSlicer 3MF and GCODE files (for MK3S+ printers) using the versions of the bottom half that worked best for me at three sizes: 100%, 70%, 50%, where the eggs fit inside one another like **Matryoshka dolls**. If you want to create a larger set, you should be able to scale above 100%, but I haven't tried it.

The easiest way to print these is with two perimeters, default top/bottom settings, and a bit of infill. The bottom half needs either a brim or supports for stability. I've tried both and had better results with grid supports at a 35-38 degree overhang threshold. You can print the top half without supports, but it prints better with just a little support in the middle for the dome.

If you want them lighter or to print faster, use my PrusaSlicer 3MF or Prusa MK3S+ GCODE files. I've done a lot of fiddling to get the settings dialed in just right.

Model files



counterswirl-egg-2024-top-half.stl



counterswirl-egg-2024-bottom-half-tight.stl



counterswirl-egg-2024-bottom-half-medium.stl



counterswirl-egg-2024-bottom-half-loose.stl



counterswirl-egg-2024-100-top-half.3mf



counterswirl-egg-2024-100-bottom-half-medium.3mf



counterswirl-egg-2024-70-top-half.3mf



counterswirl-egg-2024-70-bottom-half-tight.3mf



counterswirl-egg-2024-50-top-half.3mf



counterswirl-egg-2024-50-bottom-half-loose.3mf

Print files



counterswirl-egg-2024-100-top-half_015mm_pla_mk3s_7... .gcode

🌀 PLA 🌀 0.40 mm ≡ 0.15 mm ⌚ 7.03 hrs ⚖️ 36 g 🖨️ Prusa MK3/S/S+



counterswirl-egg-2024-100-bottom-half-medium_015mm_... .gcode

🌀 PLA 🌀 0.40 mm ≡ 0.15 mm ⌚ 5.67 hrs ⚖️ 29 g 🖨️ Prusa MK3/S/S+



counterswirl-egg-2024-70-top-half_015mm_pla_mk3s_3h... .gcode

PLA 0.40 mm 0.15 mm 3.96 hrs 17 g Prusa MK3/S/S+



counterswirl-egg-2024-70-bottom-half-tight_015mm_pl... .gcode

PLA 0.40 mm 0.15 mm 2.74 hrs 13 g Prusa MK3/S/S+



counterswirl-egg-2024-50-top-half_015mm_pla_mk3s_2h... .gcode

PLA 0.40 mm 0.15 mm 2.00 hrs 6 g Prusa MK3/S/S+



counterswirl-egg-2024-50-bottom-half-loose_015mm_pl... .gcode

PLA 0.40 mm 0.15 mm 1.42 hrs 5 g Prusa MK3/S/S+

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