



Iris Compass Circle Drawing (Easy to assemble)



Ishdo

[VIEW IN BROWSER](#)

updated 22. 11. 2024 | published 22. 11. 2024

Summary

Handy gadget for drawing circles of different size. based on Makers Cabinet "IRIS".



2.66 hrs



2 pcs



0.35 mm
0.20 mm



0.60 mm



PLA



47 g



Prusa
MK2.5/S

[Hobby & Makers](#) > [Tools](#)

Tags: [maker](#) [camera](#) [cartridge](#) [art](#) [circle](#) [rotating](#)
[easytoprint](#) [architecture](#) [easy](#) [angle](#) [tools](#) [ruler](#)
[articulating](#) [compass](#) [easyprint](#) [drafting](#) [simple](#)
[architect](#) [dxf](#) [svg](#) [circular](#) [irisbox](#) [iris](#) [shutter](#)
[rulers](#) [shutters](#) [concentriccircles](#) [easytoassemble](#)
[simplifiedesign](#) [draft](#) [easymake](#) [draftingtool](#) [drawingcompass](#)

*Update: added STEP files & link to [assembly jig](#).

*Update: added STL files without text.

I Saw Makers Cabinet's IRIS and had to have it, but then I found how much it costs and decided to design a 3d printable version. Maybe someday I'll buy the real one :).

I Worked hard over multiple iterations to get this print to be as easy to assemble as possible, hope you find it to be as such. I Would love to get feedback in order to improve the design, so feel free to message me and or leave comments.

Features:

- Beautiful
- Useful
- Durable
- Easy to use
- Easy to print
- Relatively easy to assemble

Print instructions:

Rings:

- 0.20mm layer height
- 2 Perimeters
- 50% Grid
- No Supports
- Optional color change starting on layer 3

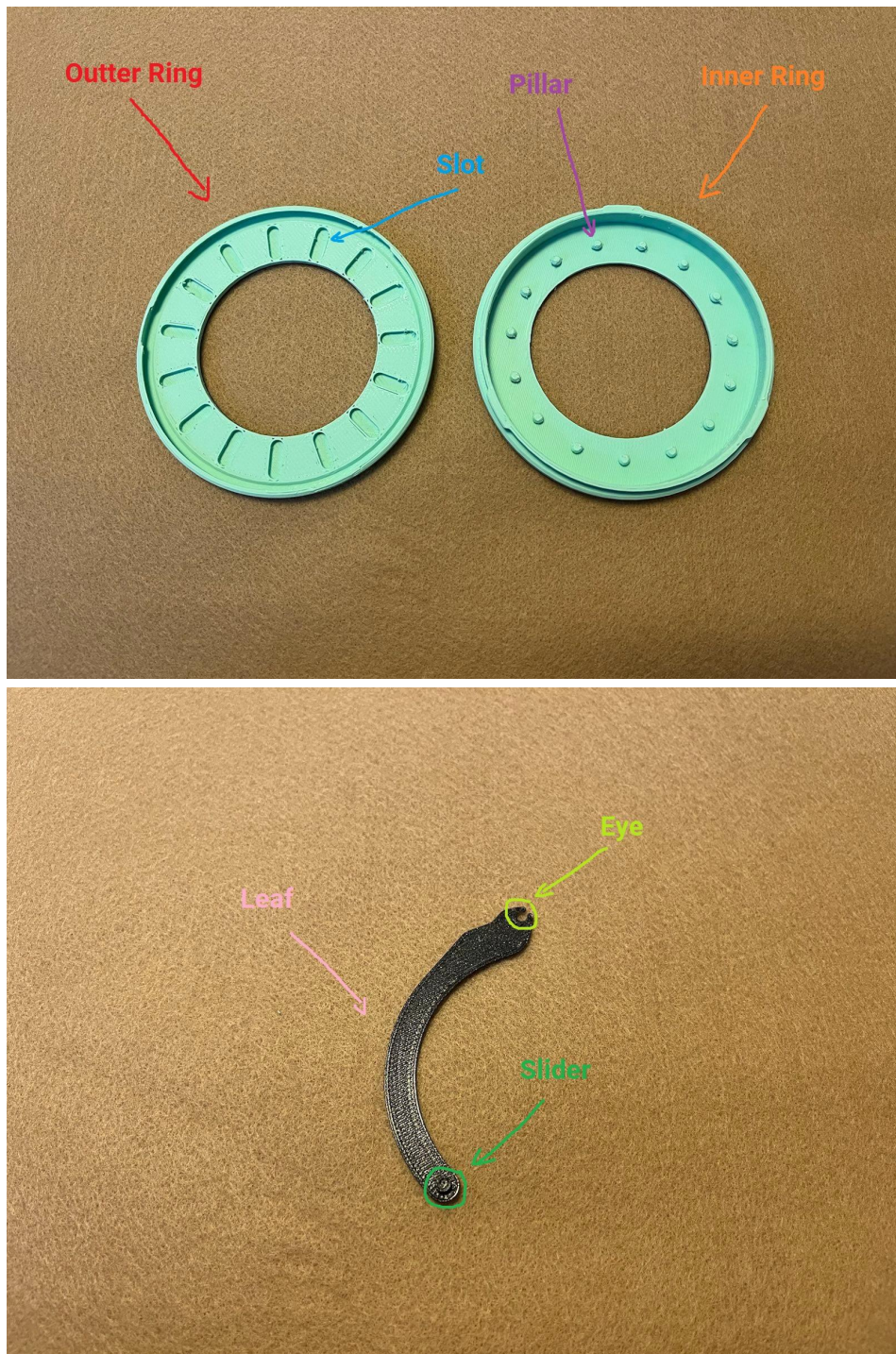
Leafs:

- 0.35mm layer height
- Top & Bottom fill pattern **Concentric**
- Printing all 15 at once is advised for better results (they got more time to cool between layers)

Assembly Instructions:

Step one (parts):

*outer ring oops



Step Two (Connecting the leafs):

Take the **Inner ring** and start hooking the **Eyes** to the **Pillars** going **CLOCKWISE**

*depending on print materials this step can go smoothly or not, don't hesitate to reprint the leaves for a better fit, it only takes 30 minutes :).



Step Three (Positioning the leafs):

After all the leafs are connected position them as shown in the picture, a small flat head screw driver can help.

*this step may be frustrating but the worry were almost done. To make this easier "markury" made an **assembly jig**.



Step Four (connecting the rings):

Place the outer ring on top trying to get all the sliders into their slots. Make sure to align the three tabs on the inner ring with the openings on the outer ring before closing

For some reason the text editor wont let me add more photos so the photo for stage four is above with the model pics.

*if a few of the leafs aren't in place after you close just take a small flat head and move the until they snap into their slot.

Model files



leaf.stl



outer-ring.stl



inner-ring.stl



leaf-loose-fit.stl



outer-ring-no-text.stl



inner-ring-no-text.stl

outer-ring-no-text.step

inner-ring-no-text.step

Print files



15-leafs_06n_035mm_pla_mk25s_30m.gcode

🌀 PLA 📏 0.60 mm 📐 0.35 mm ⌚ 0.51 hrs ⚖️ 9 g 🖨️ Prusa MK2.5/S



inner-and-outer-ring_06n_02mm_pla_mk25s_2h9m.gcode

🌀 PLA 📏 0.60 mm 📐 0.20 mm ⌚ 2.15 hrs ⚖️ 38 g 🖨️ Prusa MK2.5/S

License ©

This work is licensed under a
[Creative Commons \(4.0 International License\)](#)



Attribution

- ✖ | Sharing without ATTRIBUTION
- ✓ | Remix Culture allowed
- ✓ | Commercial Use
- ✓ | Free Cultural Works
- ✓ | Meets Open Definition