

Cabinet suspended magnetic coffee bean cellar



Rui Feliciano

VIEW IN BROWSER

updated 1. 3. 2024 | published 1. 3. 2024

Summary

Single dose coffee bean cellar

[Household](#) > [Kitchen](#)

Under cabinet magnetic individual dose coffee bean cellar. These allow to free extra space on the counter and the individual doses are kept magnetically suspended. I used relatively cheap glass jars available on Aliexpress and glued some magnets on the lids using double sided tape.

There are two versions, a 12 dose measuring 22cm and a 20 dose measuring 36cm.

Jars used link on Aliexpress

https://www.aliexpress.com/item/1005005784498459.html?spm=a2g0o.order_list.order_list_main.35.427d1c24yJcXCi



Magnets used both on the jars lids as well as on the support
12 x 3 mm, N52 NdFeB, Neodymium

[https://www.amazon.es/dp/B07YFC1QMP?
psc=1&ref=ppx_yo2ov_dt_b_product_details](https://www.amazon.es/dp/B07YFC1QMP?psc=1&ref=ppx_yo2ov_dt_b_product_details)

Magnets are attached to jar lids using a double sided glue tape.

How to print

Method 1 - You instruct your printer to print up to layer 21 (inclusive, assuming 0.2 layer height), pause to insert the magnets and then resume printing.

Method 2 - Print up to layer 21 as one object, remove it from the print bed and then bury those first 21 layers on the bed so the printer only prints the remaining object as a second object. You then insert the magnets and super glue or use epoxy to combine both objects.

I printed using PETG so as to withstand any deformation across time. Have no idea if PLA would suffice. The 20 dose version supports around 1.2Kg combined of coffee and glass jars using 18g single doses.

I attached the support to the underside of the cabinet using both a large width double sided glue tape as well as 3 6x15mm cone head shaped screws for wood



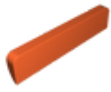
Added functionality

Included a funnel that fits perfectly these jars in order to fill them

IMPORTANT

Magnets have polarity. Make sure you insert ALL magnets facing the same polarity (does not matter which one) into the 3D print. You then adjust for the inverse polarity when gluing the magnets on the jar lids so that they attract each other.

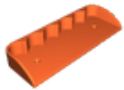
Model files



20-dose-cabinet-suspended-coffee-bean-cellar.stl



coffe_cellar_funnel.stl



12-dose-cabinet-suspended-coffee-bean-cellar.stl

License ©

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



Attribution-NonCommercial

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