Custom Nespresso Capsule Dispenser

M **Mintax**

VIEW IN BROWSER

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Summary

Inspired by commercial products and self-made solutions, I decided to design and print my custom version of a...

10.16 hrs	2 pcs	0.20 mm	0.40 mm	PLA	96 g	Prusa MK3/S/S+

Household > Kitchen

Tags: kitchen coffee organization dispenser nespresso nespressoholder kitchenorganizer coffeecapsuleholder kitchenorganization

Inspired by commercial products and self-made solutions, I decided to design and print my custom version of a Nespresso capsules dispenser. It wanted it to be nice to look at, functional and simple at the same time. What you see here is what I came up with.

You can easily pull out a capsule one-handed without the whole thing tipping over or moving at all. For refilling capsules, just pull the dispenser out of the socket, flip it vertically by 180° and put it on a new pack of capsules. Not a single capsule will ever land on the floor again!

Capsule Dispenser
I designed 3 different versions of dispensers. In terms of print quality, the one with the "N" in the middle of the tiny honeycomb pattern is the most difficult to print flawlessly (due to my design ofc). I had really good results with the angled honeycomb pattern though and I like this one the most.

Socket
There are 4 different sockets to hold anything in between 1-4 dispensers. A dovetail joint connects the two parts and holds them in place. The tolerance/offset of the joint is 0.08 mm, which seems to be the sweet spot between a snug fit and being able to disassemble the two parts without much effort.
If you decide to just print one dispenser you don't even need a socket. It turned out to be really stable on its own.

Edit 2021/02/03
Added .gcode and the .f3d files.

Let me know if you like the design and be sure to post pictures of yours! Any recommendations for improvements are welcome!

Happy printing <3

Print instructions

Printed on
Prusa i3 MK3S+

Filament used
Prusament PLA, Galaxy Black

Layer height
0.20mm

Perimeters
2

Infill
20% Gyroid

No supports, no brim

Model files

Dispenser

3 files

honeycomb_angled_nespressodispenser-v50.stl

honeycomb_n_nespressodispenser-v50.stl

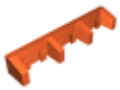
plain_nespressodispenser-v50.stl

Socket

4 files

socket1_v50.stl

socket2_v50.stl



socket3_v50.stl

socket4_v50.stl

nespressodispenser.f3d

Print files

honeycomb_angled_nespressodispenser-v50_02mm_pl.gcode

PLA 0.40 mm 0.20 mm 6.57 hrs 59 g Prusa MK3/S/S+

socket4_v50_02mm_pla_mk3s_3h36m.gcode

PLA 0.40 mm 0.20 mm 3.59 hrs 37 g Prusa MK3/S/S+

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