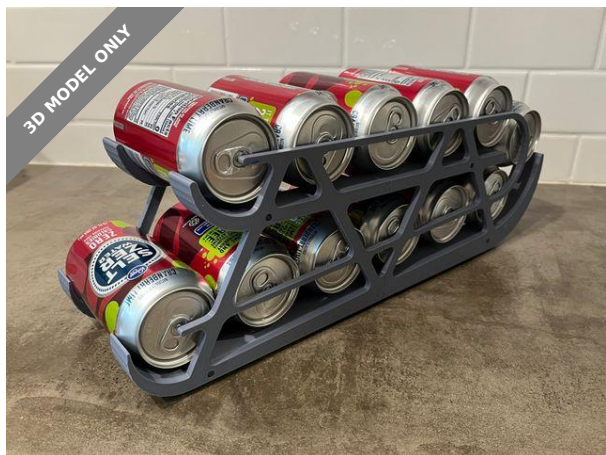




Can dispenser (12 cans, low filament)



CueBall909

[VIEW IN BROWSER](#)

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Summary

Remixed the original to cut down on the amount of filament and print time required. I also wanted to add some features.

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New version for Jan. 2024!

This model previously used alignment dowels, which were fussy and required more print time. They also weren't very strong, since they were printed with the layer lines at their weakest orientation. Those have been eliminated completely. The parts now fit together with smooth splines, like puzzle pieces. This is stronger, simpler, uses less filament, is easier to align, reduces part count, and gives more surface area for glue. This results in a relatively fast print using relatively little filament (for its size) at a fairly low cost, while being very strong.

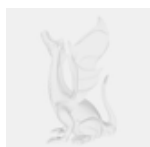
I printed this entire model multiple times using a .6 nozzle and .2 layer height with 3 walls and 8% infill. It required just over 400g of filament, as measured on a scale after printing and assembly. I've found these settings to be plenty strong, but may try a version with 2 walls and a higher density of infill, as a comparison. Requires no brim or supports.

Overall size when fully stocked with cans is approximately 175mm high and 440mm long

- A single 3MF file is provided. This contains all three parts for the left side of the dispenser.
- To make a complete unit you must print all three pieces, then print them again mirrored for the other side (this is a standard function in Cura, Babmu Studio, Prusa Slicer, and other slicers). This allows the entire model to exist as a single file with the fewest number of parts and the smallest file size.
- Superglue or epoxy is required to connect the pieces together. You can also plastic weld them, but glue works best thanks to the large surface area of the joints.
- The model is in 3 parts to fit on a 235mm² Ender sized bed. If you have a larger volume printer, you may be able to print the two rear pieces at the same time and add geometry in the slicer so that you don't need to glue them together later.
- You will also need four 135mm lengths of 5/16" or 4mm metal rod or wooden dowel to connect the two halves. I found a length of "music wire" at my local hardware store for \$2.50 that is long enough with plenty left over. 135mm is the correct length for US sized cola and beer cans. If you have different sized cans, you'll need to adjust length accordingly. This design may work with the extra-tall "Monster Energy" size cans. I haven't tried. It will NOT work with larger diameter cans, such as Chunky Soup.
- The gap between the parts is .2mm. I've tested this and found it to be an easy fit that is not too snug and leaves a very small gap for glue. If your printer is not well tuned, you may need to lightly sand the connecting areas.

Superglue or epoxy the parts for each side together. Then cut your dowels to length and insert/glue them.

This remix is based on



None

Model files



12-pack-dispenser-v8.3mf

[Find source .stl files on Thingiverse.com](#)

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