


# Ensure bottle opening wrench - version 2

Not much here

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## Summary

A bottle opener sized for the new style Ensure bottles - v2

Healthcare > Home Medical Tools

Tags: bottleopener bottlecapopener ensure

Abbot, the maker of Ensure nutritional supplement, recently changed the design of their bottle caps, allegedly to comply with EU regulations.

Unfortunately the new style caps are difficult to open for somebody like me with arthritic hands and missing fingers.

I designed this wrench to easily open the bottles, it is sized to fit a 42mm diameter cap, and may work for 43-44mm caps as well.

I made this out of ASA, to cope with higher temperatures and to be reasonably strong.

Layer height 0.2mm, line width 0.4mm

Five walls, five top and bottom layers, 15% infill.

It uses 33grams of filament and takes two and a half hours on my Cosmos Centauri.

I used a cylindrical modifier to add fuzzy skin on the inside surface of the wrench.

Changes for version 2:

Added a fillet to reduce a stress concentration, avoiding a potential break.

Tested with other brands of supplements, it works fine.

## This remix is based on



**Ensure bottle opening wrench**
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## Model files



**ensure-wrench-v2.stl**

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