

Seal Opener – Adaptive Bottle & Foil Seal Puller

TOMGLOBAL

VIEW IN BROWSER

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Summary

3D-printed leverage tool designed to easily peel and open bottle foil seals for users with limited finger strength.

Household > Kitchen

Tags: kitchen opener bottle grip seal accessibility pull foil adaptive assistive leverage

Overview

The **Seal Opener** is an adaptive 3D-printed tool engineered to assist individuals in lifting, peeling, and opening protective foil, plastic, or paper seals on bottles, jars, and food containers without needing strong fingernails or fine pinch dexterity.

Who is this for?

Designed for individuals facing finger and hand limitations, including:

Limited pinch strength or fine motor control issues

Arthritis, joint pain, or weak fingers

Anyone who struggles to grab small pull tabs on sealed containers

Purpose & Key Features

Effortless Seal Gripping: Clamps or hooks onto small foil seal tabs to provide mechanical pulling leverage.

Durable & Reinforced Design: Built with added structural integrity so the tool remains rigid and reliable during use.

Promotes Independence: Allows users to independently unseal medicine bottles, dairy containers, and food jars.

Recommended Print Settings

Material: PETG or PLA

Layer Height: 0.2 mm

Infill: 25% – 35%

Perimeters / Walls: 3 to 4 walls for structural strength

Supports: No supports needed

Printer Type: FDM Printer

Credits & Attribution

Original Project: Seal Opener

Designed with: Tikkun Olam Makers (TOM)

Original Source: [TOM Global](https://tomglobal.org/project/seal-opener-6a131d7e8a004d0013c5fedc)

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This remix is based on



Seal Opener | TOM Global

Model files



seal1.stl



seal-openner-2.stl

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