Adaptive Can Opener

TOMGLOBAL

VIEW IN BROWSER

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Summary

Ergonomic leverage tool designed to easily open ring-pull cans for individuals with limited hand strength.

Household > Kitchen

Tags: kitchen opener can accessibility arthritis adaptive assistive ergonomics leverage

Overview

The **Adaptive Can Opener** is an ergonomic 3D-printed assistive device designed to provide extra mechanical leverage when opening ring-pull cans and tin tabs. It eliminates the need for strong finger pinch force or painful pulling motions.

Who is this for?

Designed for individuals facing hand and wrist challenges, including:

Limited hand strength or fine motor dexterity

Arthritis, joint pain, or hand weakness

Anyone seeking an easier, pain-free way to open canned goods in the kitchen

Purpose & Key Features

Mechanical Leverage: Easily hooks under ring tabs and lifts them with minimal exertion.

Ergonomic Grip: Fits comfortably in the hand, spreading forces evenly to reduce wrist and finger strain.

Kitchen Independence: Restores self-sufficiency in meal preparation and daily kitchen tasks.

Recommended Print Settings

Material: PETG or PLA (PETG recommended for higher strength and durability)

Layer Height: 0.2 mm

Infill: 25% – 30% (higher infill ensures stiffness under pressure)

Perimeters / Walls: 3 to 4 walls for extra structural strength

Supports: No supports required

Printer Type: FDM Printer

Project created via TOM (Tikkun Olam Makers).

This remix is based on

I Can - Drinking Can Opener
by TOMGLOBAL

Adaptive Can Opener | TOM Global

Model files

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