



Poop-Bag Holder Remix



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Summary

A 3d printable dog poop bag holder inspired by <https://www.printables.com/model/1379256-dog-poop-bag-holder>.

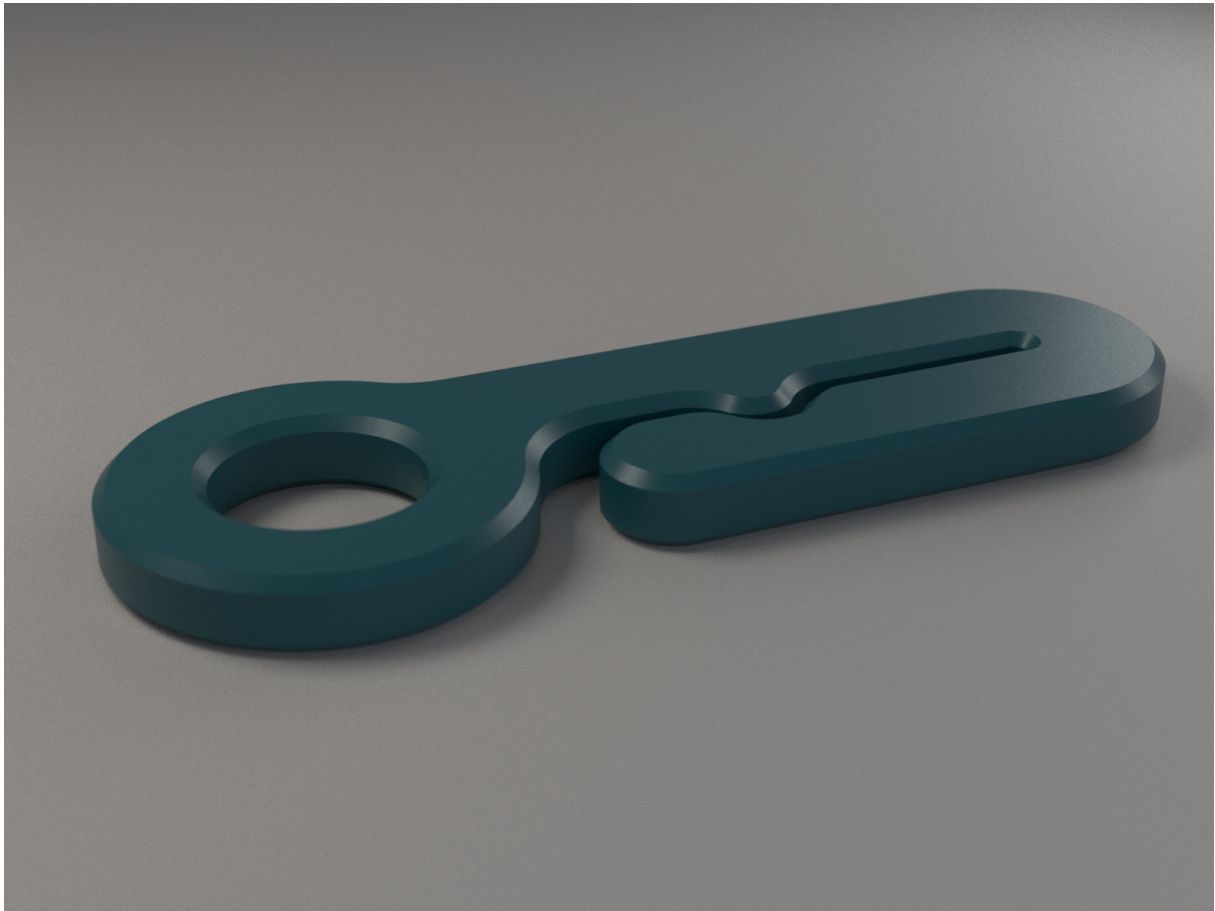
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Tags: [dog](#) [poop](#) [accessory](#) [lead](#) [pets](#)

Poop-Bag Holder Remix

This is a 3d printable dog poop bag holder inspired by the [Poop Bag Holder](#). Thank you @jmizzle for such a useful accessory.

Attach it to your lead using a carabiner and hang your dog poop bag, so your hands are free on the walk home. Remodelled to be parametric. The slot is designed to hold the tied neck of a bag securely, but still allow you to pull it free when you reach a bin.



How it works

- **The ring** goes onto your lead, a carabiner, a belt loop or a bag strap.
- **The slot** takes the tied neck of a bag. Push the neck in from the open end under the arm and slide it up the slot.
- **The kink** halfway along the slot is the clever bit. The bag neck has to wiggle past it, so it can't slip out on its own, but you can still pull it free when you reach a bin.

The model is a single 6 mm plate with a 1 mm, 45° chamfer on every top and bottom edge. The chamfer makes it comfortable to handle and stops the slot edges snagging the bag.



Files

File	What it is
poop-bag-holder_parametric.scad	The model. Every dimension is adjustable. Start here.
poop-bag-holder_6mm_chamfered_parametric.stl	Ready-to-print STL with the default settings.

Opening the model

Open `poop-bag-holder_parametric.scad` in OpenSCAD and change values in the **Customizer** panel (Window → Customizer). Press **F6** to render, then **F7** to export an STL.

Choosing a chamfer method

OpenSCAD has no built-in chamfer, so the model offers two ways to make one. Both give the same shape.

roof (default)	minkowski	
OpenSCAD version	Development snapshot 2025 or newer	Any version
Extra setting needed	Turn on Preferences → Features → roof	None
Speed	A few seconds	Slow. It can take several minutes at fine quality.
How it works	Builds a 45° "roof" up from the outline and trims the plate with it	Shrinks the outline, then sweeps a double cone around it

If you're on a stable OpenSCAD release, choose minkowski. Use quality = draft while you experiment, then switch to fine for the final export.

Tip: in a development snapshot, set Preferences → Advanced → 3D Rendering Backend to **Manifold**. It makes everything much faster.

Options

All sizes are in millimetres. "From the ring centre" means measured along the length of the holder from the centre of the ring hole.

Plate

Option	Default	What it does
height	6	Thickness of the holder.
chamfer	1	Size of the 45° bevel on the top and bottom edges. Use 0 for square edges. Must be less than half the height.
chamfer_method	roof	roof or minkowski; see above.

Ring

Option	Default	What it does
ring_r	16	Outer radius of the ring end (32 mm across).
hole_r	8	Radius of the hole (16 mm across). Make it bigger for chunky leads or carabiners.
ring_fillet	8	Radius of the curves where the stem joins the ring.

Stem

Option	Default	What it does
stem_w	24	Width of the stem. The rounded top is a half-circle of the same width.
stem_len	59	Ring centre to the centre of the rounded top. Sets the overall length.

Slot

Option	Default	What it does
slot_w	2	Width of the slot. Increase it for thicker bags; decrease it for a tighter grip.
arm_end	25.25	From the ring centre to the rounded end of the slotted arm. Controls the size of the entry gap.
kink_y	35	From the ring centre to the kink.
kink_r	3.5	How far the kink bulges. Bigger means a stronger hold.

kink_fillet	5	Radius of the curves either side of the kink.
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Note on the slot: the slot is slot_w wide where it runs straight. On the slopes of the kink it narrows to about two-thirds of that, roughly 1.3 mm with the defaults. If your printer struggles with fine gaps, or the bag is hard to slide past the kink, try slot_w = 2.5 or 3.

Quality

Option	Default	What it does
quality	fine	fine for export, draft for quick previews (coarser curves, much faster with minkowski).

The model is automatically centred on X/Y and sits on Z = 0, ready for slicing.

Suggested print settings

Setting	Recommendation
Material	PETG is best: tough, slightly flexible, and copes with sun and cold. PLA works but can go brittle outdoors or soften in a hot car. ASA is great if you have it.
Orientation	Flat on the bed, as exported. No rotation needed.
Supports	None
Brim / raft	None needed. The bottom chamfer also stops "elephant's foot" from closing up the slot.
Nozzle	0.4 mm
Layer height	0.2 mm (0.16 mm for a smoother chamfer)

Walls / perimeters	4
Top / bottom layers	5
Infill	15 % gyroid.
Material used	About 10 cm ³ : roughly 8 g of PETG or PLA

Before printing, check the slot in your slicer's preview. It should be open along its whole length. If it isn't, widen slot_w slightly or reduce your first-layer squish.

Command-line rendering

```
# Default (roof chamfer) — development snapshot openscad poop-bag-holder_parametric.scad -o holder.stl --enable=roof --backend=Manifold #
Minkowski chamfer — works in any version openscad poop-bag-holder_parametric.scad -o holder.stl -D 'chamfer_method="minkowski"' #
Change any option with -D, e.g. a wider slot and bigger hole openscad poop-bag-holder_parametric.scad -o holder.stl --enable=roof --
backend=Manifold \ -D slot_w=3 -D hole_r=10
```

<https://github.com/paulbrouwersnz/3d-dog-poop-bag-holder-remix>

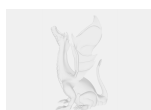
This remix is based on



Dog Poop Bag Holder

by JR

Model files



poop-bag-holder_parametric.scad



poop-bag-holder_6mm_chamfered_parametric.stl

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