Fidget Mini Claw Machine

Redfully

VIEW IN BROWSER

updated 17. 4. 2026 | published 17. 4. 2026

Summary

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1.85 hrs	1 pcs	0.15 mm	0.40 mm	PLA	21 g	Creality K2 Pro

Toys & Games > Building Toys

Tags: toy mini desk open grip clip mechanism spring fun printinplace gadget pla keychain petg pocket compact machine lightweight interactive claw

Meet the **Mini Claw Machine**, a tiny 3D printed claw toy designed to be built in just two pieces: the main structure with the claws and internal spring, plus the rod that connects everything and makes it work. Once assembled, simply push the rod toward the body and the spring inside will open the claws automatically. The rod includes a small ring, so you can hang it wherever you want and carry it as a fun everyday keychain. Lightweight, compact, and satisfying to use, it is a playful mini mechanism with a clever opening action.

Why You’ll Love It

- **Two-piece design**: simple assembly with the main body and the rod.
- **Spring-action mechanism**: pushing the rod opens the claws automatically.
- **Keychain-ready**: the built-in ring makes it easy to hang anywhere.
- **Compact and lightweight**: total weight stays under 25 g.
- **Print-in-place style**: clean, clever, and fun to print.

ADDITIONAL TECHNICAL DETAILS

- **Total weight**: under **25 g**.
- **Assembly**: 2 pieces, body plus rod.
- **Tolerances**: **0.25 mm** for the rod-spring and rod-claw-base fits.
- **Recommended materials**: **PLA** and **PETG**.
- **PLA Silk note**: not ideal, because it may make the spring weaker.
- **Use note**: this is a **keychain**, and unless printed in **PETG** or other stronger materials, it is not suitable for carrying heavy loads.
- **Brim suggestion**: use a brim for the claw-linking arms to improve first-layer stability.
- **Print time**: around **2 hours**, depending on slicer settings and printer speed, but it can vary.

PRINT PROFILE:

0.16mm Layer - 3 Walls - 20% Infill

- **No supports needed**: designed for easy support-free printing.
- **Recommended materials**: PLA for best balance of flexibility and detail, PETG for extra durability.
- **Infill**: 15-20% for a light but functional mechanism.
- **Perimeters**: 3 walls for strength and movement stability.
- **Nozzle temperature**: PLA 200°C, PETG 230°C.
- **Print speed**: 45-60 mm/s.
- **Print time**: around 2 hours, depending on slicer settings and scale.

Model files

fidget-mini-claw-machine-bambulab.3mf

fidget-mini-claw-machine-creality.3mf

shaft-fidget-mini-claw-machine.stl

frame-fidget-mini-claw-machine.stl

fidget-mini-claw-machine-prusa.3mf

Print files

fidget-mini-claw-machine-prusa_04n_015mm_pla_coreon... .bgcode

PLA 0.40 mm 0.15 mm 1.85 hrs 21 g Prusa CORE One L

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