



Flexible Pen with a simple design - works with 2,8mm Pica leads



Platzhalter

[VIEW IN BROWSER](#)

updated 6. 2. 2022 | published 6. 2. 2022

Summary

A Pen that has no mechanic besides its own stiffness to grab on the 2,8mm lead. Inspired by an Italian dish.



2.23 hrs



1 pcs



0.10 mm



0.40 mm



PLA



12 g



Prusa MINI /
MINI+

[Household](#) > [Office](#)

Tags: [pen](#) [flexible](#) [lead](#) [pica](#)

This pen uses its own stiffness to grab on a 2,8mm lead (also used by Pica pencils see here: <https://www.pica-marker.com/en/pen/pica-dry>)

The lead is simply inserted from the tip while pressing on the walls adjacent to the cutout on the rear of the pen. Due to the force applied the front bends open and the lead can be moved in or out.

This was a rather quicker adaption of the idea of printing this to take part in the flash contest.

The pictures shows the pen in comparison to the original Pica pen and the apple pencil.

I maybe will add a version later on that is

- parametric and changeable via openSCAD
- or a version with a magnetic cap to protect the tip a bit more. Though the pen is more a “design piece” than a pen for the toolbox.
- a hexagon shaped one, because it is bestagon

Happy printing :)

I will try to add a video to show how it works once I figured out how.

My print is made from NX2 PLA by extruder in 0.1mm layer height.

In the area of the tip I used some support and also a brim to ensure adhesion to the build plate.

For more details about the print settings I used have a look in the .3mf file.

I will add also the .step file so that you can play around to fit the stiffness better to the material of your choice.

If you wonder, yes I got inspired by a similar designed pen made out of carbon fiber named after a famous Italian pasta dish made with eggs, hard cheese, cured pork and black pepper. Look them up and if you happen to have one of these pens give me a short shoutout, I was not able to get one back when they were made and would love to know how they perform.

Model files





stift-28mm-v2.step

Print files



stift-28mm-v2_01mm_pla_mini_2h14m-copy.gcode

🌀 PLA 📏 0.40 mm 📐 0.10 mm ⌚ 2.23 hrs ⚖️ 12 g 🖨️ Prusa MINI / MINI+

License ©



This work is licensed under a
[Creative Commons \(4.0 International License\)](#)

Attribution—Noncommercial—Share Alike

-
- ✗ | Sharing without ATTRIBUTION
 - ✓ | Remix Culture allowed
 - ✗ | Commercial Use
 - ✗ | Free Cultural Works
 - ✗ | Meets Open Definition