

## Filament Cutter with blade [Work in progress ...]

F Frd2002

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### Summary

After cutting many filament ends with pliers, I have decided to create my own tool.



20.17 hrs



9 pcs



0.20 mm



0.40 mm



PLA  
PET



201 g



Prusa  
MK3/S/S+

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Tags: [filament](#) [blade](#) [cutter](#) [cut](#)

After cutting many filament ends with pliers, I have decided to create my own tool. The idea is to make it very safe due to dangerous blade. I encapsulate it inside making sure my fingers will stay away from it.

This tool can cut filament with diameter of 1.75 mm (45° and 90°) and 2.85mm (90° only).

Dimension : 55 x 25 x 40 mm

Versionning :

- add chamfer to ease blade path on Top part

## Print instructions

I printed two parts with PETG, 0,4mm nozze, with border and 20% infill. No support is required.

## Model files



**prusa-coupe-filamant-v2-top-part-cutter.stl**



**prusa-coupe-filamant-v2-base-cutter.stl**



**prusa-coupe-filamant-v3-rounded-top.stl**



**prusa-coupe-filamant-v3-rounded-base.stl**

## Print files



**prusa-coupe-filamant-v2-top-cutter\_02mm\_pla\_mk3.gcode**

⚙️ PLA ⚙️ 0.40 mm ⚙️ 0.20 mm ⌚ 1.59 hrs ⚖️ 15 g 🖨️ Prusa MK3/S/S+



**prusa-coupe-filamant-v2-v17-cutter\_02mm\_petg\_mk.gcode**

⚙️ PET ⚙️ 0.40 mm ⚙️ 0.20 mm ⌚ 1.60 hrs ⚖️ 16 g 🖨️ Prusa MK3/S/S+



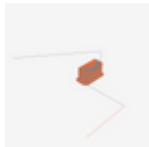
### prusa-coupe-filamant-v21-base\_02mm\_petg\_mk3s\_2h.gcode

🌀 PET 🌀 0.40 mm ≡ 0.20 mm ⌚ 2.17 hrs ⚖️ 23 g 📄 Prusa MK3/S/S+



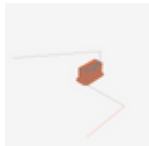
### prusa-coupe-filamant-v21-base\_02mm\_pla\_mk3s\_2h1.gcode

🌀 PLA 🌀 0.40 mm ≡ 0.20 mm ⌚ 2.16 hrs ⚖️ 23 g 📄 Prusa MK3/S/S+



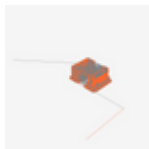
### prusa-coupe-filamant-v3-rounded-base\_02mm\_petg\_.gcode

🌀 PET 🌀 0.40 mm ≡ 0.20 mm ⌚ 2.58 hrs ⚖️ 27 g 📄 Prusa MK3/S/S+



### prusa-coupe-filamant-v3-rounded-base\_02mm\_pla\_m.gcode

🌀 PLA 🌀 0.40 mm ≡ 0.20 mm ⌚ 2.54 hrs ⚖️ 26 g 📄 Prusa MK3/S/S+



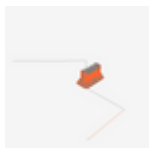
### prusa-coupe-filamant-v3-rounded-all\_02mm\_petg\_m.gcode

🌀 PET 🌀 0.40 mm ≡ 0.20 mm ⌚ 4.20 hrs ⚖️ 42 g 📄 Prusa MK3/S/S+



### prusa-coupe-filamant-v3-top-bis\_02mm\_petg\_mk3s\_.gcode

🌀 PET 🌀 0.40 mm ≡ 0.20 mm ⌚ 1.67 hrs ⚖️ 15 g 📄 Prusa MK3/S/S+



### prusa-coupe-filamant-v3-top-bis\_02mm\_pla\_mk3s\_1.gcode

🌀 PLA 🌀 0.40 mm ≡ 0.20 mm ⌚ 1.66 hrs ⚖️ 15 g 📄 Prusa MK3/S/S+

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