



HAFC V3 - Hackman Automatic Filament Cutter



HackMan3D

[VIEW IN BROWSER](#)

updated 18. 10. 2026 | published 18. 10. 2026

Summary

HAFCV3: A more compact automatic filament cutter with improved trigger resistance, magnetic mounting and easier assembly



1.77 hrs



1 pcs



0.20 mm



0.40 mm



PLA



28 g



Prusa MK4S

[3D Printers](#) > [Prusa Parts & Upgrades](#)

Tags: [printer](#) [filament](#) [cutter](#) [mod](#) [creality](#) [management](#)
[automatic](#) [v3](#) [bambu](#) [bambulab](#) [hafe](#)

HAFC V3 HackMan Automatic Filament Cutter

Smaller, more compact and more reliable!

After the V2, I wanted to improve the design by making it more compact while keeping the mechanism simple and easy to assemble.

The **HAFC V3** is significantly smaller than the previous version, with increased trigger resistance to help prevent accidental activation.

I've also simplified the assembly: the mechanism now requires only **2 screws**, and most of the hardware from the V2 can be reused.

What's New in V3?

- **More compact design** – Significantly smaller than the V2.
- **Improved trigger resistance** – Helps prevent unintended activation.
- **Simplified assembly** – Only 2 screws required.
- **Magnetic mounting** – Uses 4 to 6 magnets.
- **V2 hardware compatibility** – Reuses the same spring, blade and PTFE fitting.

Hardware Required

You can use a standard **HAFC V2 hardware kit**, which includes most of the components needed for this version.

Qty	Component
1	Bambu Lab filament cutter blade
1	Compression spring – 0.3 × 6 × 80 mm
1	M6 PTFE fitting
4–6	Neodymium magnets – 8 × 2 mm
2	M2 × 6 mm countersunk screws

If you already have a HAFC V2, you can reuse most of its hardware.

Most V2 kits include 4 magnets. You can use those or add 2 more for the 6-magnet configuration.

Where to Buy the Hardware

HAFC V2 Hardware Kits - AliExpress

I've selected several listings for the HAFC hardware kit. They contain the same type of components, so feel free to compare prices and shipping costs to find the best deal.

Kit - Option 1

https://s.click.aliexpress.com/e/_c3ucUNjj

Kit - Option 2

https://s.click.aliexpress.com/e/_c4LHD06l

Kit - Option 3

https://s.click.aliexpress.com/e/_c3dssvGd

Kit - Option 4

https://s.click.aliexpress.com/e/_c3yWFVRb

Kit - Option 5

https://s.click.aliexpress.com/e/_c3V7Z8Dx

Additional Magnets - Optional

8 × 2 mm Neodymium Magnets

If you want to use 6 magnets instead of the 4 usually included in the V2 kit, you can find additional magnets here:

https://s.click.aliexpress.com/e/_c3kujblt

M2 Screws - Required

The HAFC V3 only requires **2 × M2 × 6 mm countersunk screws**.

https://s.click.aliexpress.com/e/_c4KCmK0D

Important: Make sure to select **M2 diameter and 6 mm length** when ordering.

Assembly & Installation

The V3 has been designed to keep assembly straightforward, with fewer screws and a more compact mechanism.

Before installation, check that:

- The spring is correctly positioned.
- The Bambu cutter blade is properly installed.
- The mechanism moves smoothly and returns to its original position.
- The magnets are securely installed.
- The M6 PTFE fitting is correctly attached.

Test the cutting mechanism manually before using it with your printer.

Feedback & Support

If you print the HAFC V3, feel free to share pictures of your build or leave feedback in the comments.

Your ratings, likes and downloads help support my work and future designs.

Thanks for your support!

Designed by Hackman3D

Some links in this description are affiliate links. Purchasing through them helps support my projects at no additional cost to you.

Model files



6mm-top-ressort.stl



levier.stl



new-slide-v4.stl



v3-6mm-cover.stl



v3-6mm-body.stl

Print files



prusa-hafc-v3_04n_02mm_pla_mk4s_1h46m.bgcode

PLA 0.40 mm 0.20 mm 1.77 hrs 28 g Prusa MK4S

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