



# Harry's Razor Handle (Mechanical)



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## Summary

Handle for Harry's brand razor blades. The handle is beefy in your hands, but still fits the Harry's travel case (see...

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Handle for Harry's brand razor blades. The handle is beefy in your hands, but still fits the Harry's travel case (see photo). The top part is an attached, mechanical slide to make switching blades easy. While the curves do not perfectly match the blade, it is designed so the blades do not pop off during use. The mechanical slide is like the one from Harry's: slide it towards the blade to remove the old and put on the new.

Print this, throw it in your travel bag, and never be caught without a handle.

READ ALL THE INSTRUCTIONS, please.

## Print Settings

**Printer Brand:**

MK3

**Printer:**

Prusa i3

**Supports:**

Yes

**Infill:**

15%

**Filament:** Any PETG Any

**Notes:**

Print with 0.4 nozzle and 0.2 layer height and 15% infill. I used PETG.

Print it standing up, with minimal support from the base only to keep it from falling over during the print job. Do not print supports for the mechanical part! This will allow the mechanical part to print with intended clearances around the handle. I tried many support ideas and ultimately determined the optimal height to raise this piece off the handle and not have any supports for it just worked best.

## **Background**

When it comes to razors, I am cheap, but I want a good shave. Spending \$1 per week is my limit. The Gillette Mach 3 was my go to for years but the price just got to be too much. Then, I used Dollar Shave Club Executive (Dorco). But 3-4 of their handles broke before I ran out of blades, and the 3D printed handle did not do any better. Their handle design is just bad.

I transitioned to Harry's after I compared the shave of Harry's to Dorco and Gillette on half my face for months to see which lasted better or which offered a closer shave. I found the biggest difference was blade quality consistency. In the end , they were all the same.

I like Harry's. I have never had a problem. Handle has never been lost or broken either.

For travel purposes, I have a bag that I always keep stocked. This way, I never find myself surprised that I don't have a razor blade or deodorant while on the road. But I didn't want to buy an extra handle for my Harry's after my horrible experience with Dorco handles. So, I designed one.

The most challenging part of this was making a mechanical slide part that fit the blade and printed easily. I spent time doing test prints, using pennies of filament each time. I did this over weeks, when I had a few minutes to play with my design.

Hope others can benefit.

## Instructions

I test printed the head of this a bunch of times, with different print settings and tweaking the design. The mechanical slide mechanism that is used to push the blade off works remarkably well if you follow these steps.

1. Print with 0.4 nozzle and 0.2 layer height and 15% infill. I used PETG.
2. Print it standing up, with minimal support from the base only to keep it from falling over during the print job. Do not print supports for the mechanical part! This will allow the mechanical part to print with intended clearances around the handle. I tried many support ideas and ultimately determined the optimal height to raise this piece off the handle and not have any supports for it just worked best.
3. The bottom layer of the mechanical part is intended to be disposable. Once printed, use a razor blade to slice any strings that are connecting it to the main body. Don't spend more than 10 seconds on this right now. Then, force the mechanical part up with your fingers (no tools) with some force. It will break free and move, then you can clean up the strings on the bottom of the mechanical part with ease!

Category: Bathroom

## Model files



**harrysrazor.stl**

[Find source .stl files on Thingiverse.com](https://www.thingiverse.com/thing/1234567)

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