



Logitech MX Smart Knob



[VIEW IN BROWSER](#)

updated 19. 10. 2026 | published 19. 10. 2026

Summary

Universal knob for Logitech MX keyboards. It allows you to conveniently control volume and settings in graphics programs



1.17 hrs



1 pcs



0.20 mm



0.40 mm



PLA



26 g



Prusa CORE
One / +

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Tags: [knob](#) [mechanical](#) [keyboard](#) [logitech](#) [easyprint](#)
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This is universal smart knob for Logitech MX keyboards I designed for **Logitech MX Keyboard Adaptive Add-ons** contest.



How it works:

The knob converts rotational motion into physical key presses. Turning it clockwise presses the right arrow key, while turning it counterclockwise presses the left arrow key. It is designed for adjusting various parameters, such as volume, exposure, or saturation in graphics software.



Features:

- Rotation to key presses transfer.
- Interchangeable knobs.
- Four knob designs.
- Two installation methods.

- Optional tilt legs included 5mm and 10mm rise.
- Compatible with 0.6mm and 0.4mm nozzle
- Easy to print
- No supports
- 3Ds Max source files included

Compatibility:

- Logitech MX Keys
- Logitech MX Keys Mini
- Logitech MX Mechanical

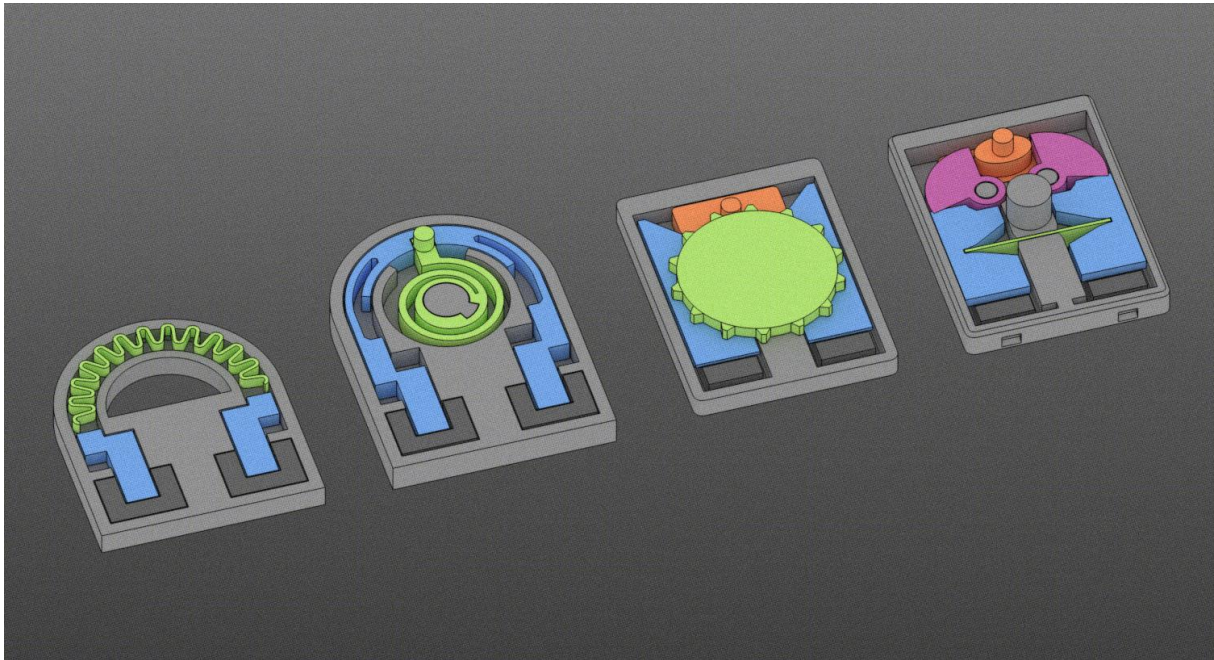
Assembly Instruction:

- **Download**

Development process:

As I am the proud owner of an MX Keys keyboard, I was wondering how I could make use of the programmable F1 to F12 keys. I took my inspiration from the Logitech MX Craft keyboard. I came up with the idea of creating a detachable dial which, when turned in different directions, would press different keys. And so the creative process began. Right from the start, I knew I wanted to arrange several dials side by side, so the whole thing wouldn't be wider than the width of two keys.

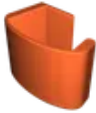
This really simple concept turned out not to be so easy to put into practice. Some obvious ideas proved difficult to implement. My first designs, based on wedges, generated too much friction and the whole mechanism jammed very quickly. Friction was my main enemy here. The breakthrough came about 10 days before the end of the competition. The design, based on a spring, a hinge and a latch, began to work as intended. It was rather wobbly at first, but every problem was sorted out one by one. Below, I present my initial ideas, which didn't work as they should have.



Software used:

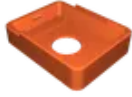
- 3Ds Max - Modeling
- V-ray - Rendering
- Rapid Raw - Photography
- No AI used

Model files

	Parts	18 files
	rp_smart_knob_clip_v1_0.stl	
	rp_smart_knob_base_v1_0.stl	
	rp_smart_knob_flap_v1_0.stl	



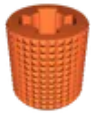
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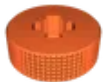
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rp_smart_knob_knob_a_v1_0.stl



rp_smart_knob_knob_f_v1_0.stl



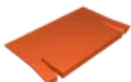
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rp_smart_knob_knob_d_v1_0.stl



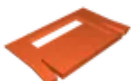
rp_smart_knob_knob_e_v1_0.stl



rp_smart_knob_rail_sticky_v1_0.stl



rp_smart_knob_knob_c_v1_0.stl



rp_smart_knob_rail_for_clip_v1_0.stl



rp_smart_knob_knob_h_v1_0.stl



rp_smart_knob_ratchet_v1_0.stl



rp_smart_knob_rail_mx_mechanical_v1_0.stl



rp_smart_knob_knob_g_v1_0.stl



rp_smart_knob_spring_v1_0.stl



retronprint_smart_knob_v1_0.3mf

Print files



retronprint_smart_knob_v1_0_04n_02mm_pla_coreone_1h... .bgcode

⚙️ PLA ⚙️ 0.40 mm ⚙️ 0.20 mm ⌚ 1.17 hrs ⚖️ 26 g 🖨️ Prusa CORE One / +

Other files



smartknob_guide.zip



source_files.zip

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