



Creality K1 Hopper



Medieval Muffin

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Summary

Version 0.01 Alpha, just tested a few times and it works as intended, but needs a few tweaks.

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An initial prototype design for a filament hopper system intended for the Creality K1 3D printer.

Mounting Instructions:

- Requires drilling into the printer's middle frame.
- Secured using two (2) M3x12 screws.
- Utilizes an M3x45 screw for the rotating axle.
- Heat-set inserts are required at both ends of the axle for stability.

Component Details & Requirements:

- **Metal Inlay:** A custom-cut metal inlay is necessary for operation (prototype used 1mm aluminum sheet).
- **Silicone Wiper:** The right side is dimensioned for a Bambu Lab silicone wiper, requiring slight modification to fit.

- **Mechanism:** This version does not feature a spring mechanism; this is planned for V0.2.

Compatibility Note:

- Developed for the Creality K1. Potential compatibility with K1 Max or K1C is unverified.

Provided G-Code Macros:

- **Disclaimer:** The included G-Code macros reflect the designer's specific machine calibration (including a Y-axis offset). Users **must** review and adjust these parameters according to their own printer's configuration prior to use. Failure to do so may result in improper operation or potential damage.

```
[gcode_macro PURGE_POSITION] gcode: {%
if
printer.toolhead.position.z < 42 %} G0 Z45 F3000 ; Stelle
sicher, dass Z mindestens 45 ist {%
endif %} G0 X140.1 F6000
; Bewege die X-Achse G0 Y218 F6000 ; Bewege die Y-Achse
M106 P0 S255
```

```
[gcode_macro CLEAR_PURGE] gcode: {%
if
printer.toolhead.position.z < 42 %} G0 Z45 F3000 ; Stelle
sicher, dass Z mindestens 45 ist {%
endif %} G0 X140.1 Y218
F6000 ; Poistion sicherstellen G0 Y218 F6000 ; etwas nach
vorne, damit es sich nicht verhakt G4 P5000 G92 E5 F750 G0
X167 F600 ; langsam nach rechts zum abwischen G0 Y200 F600
; fahrt von Hopper nach vorne G0 Y200 F6000 ;erneutes
zuruckfahren G0 X140.1 F6000 G0 Y218 F3000 G0 Y200 F10000
G0 Y218 F3000 G0 Y200 F10000 G0 Y218 F3000 G0 Y200
F10000
```

Model files



holder.stl



holder.step



hopper.step



hopper.stl

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