



Dino-Clip Mechanical CAM Chip-Clip (PRINT-IN-PLACE)



Sneaks

[VIEW IN BROWSER](#)

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Summary

Fun design for kids and useful for mom and dad! Mechanical Dinosaur Chip Clip Based on Andrei's amazing CAM BAG-CLIP.



25.41 hrs



4 pcs



0.20 mm



0.40 mm



PLA



221 g



Prusa
MK3/S/S+

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I am so totally impressed with [Andrei's Bag Clip](#). It is one of the most clever designs I have ever printed. From the moment I took it off the printer, I wanted to completely understand how it worked and how Andrei designed it. I spent weeks building his design up in Solidworks, trying to understand the math involved in the CAM mechanism. Once I had his model rebuilt, I then started playing and having fun with tweaks and

changes. You will notice the v3.04 on the inside of the lever; there were a LOT of versions.

In addition to the obvious change of giving the clip a dinosaur theme, I also:

- Designed a Break-Away support tab (Easier to slice and remove supports after printing)
- Increased the two post sizes to 8.5mm (Stronger clip is harder to break)
- Added a chamfer to the base/top of the posts (Makes breaking parts loose easier after printing)
- Added a completely different 'teeth' design (aesthetics and gripping the bag better)

Printing: I print these clips with a .2mm layer thickness at 20% and they are very strong. I've included two GCODE files for PLA which is what I print all mine in.

Tips:

- After printing, break off the support, and squeeze the entire print like you are closing a nutcracker.
- The further you put the bag into the Dino's mouth, the harder it is to shut. If you have a really thick bag, don't put it all the way in. Finding the right jaw strength was one of the causes of many versions.
- The best materials I've found to use are matte PLA's - My favorite is [Joel's High Five Blue](#) (pictured) from [Proto Pasta](#).

Update 04/25/21: I have uploaded the STL's for multi-color, the MK3S-MMU2 .gcode, and the SLIC3R Project files for both a single print and printing a lot of five clips. The MMU2 uses the first three positions. Have a look at the attached image for reference of which color is where: Purple MMU2 position #1, Blue MMU2 position #2, Orange MMU2 position #3

IMPORTANT NOTES: The Multi-Color STLs are only for multi-color printers. They can not be printed separately and assembled. This design is PRINT-IN-PLACE only. Secondly, I have had a lot of issues printing multi-color. Make sure your print bed is very clean. Whatever your cleaning process, I suggest you do it before this print.

This remix is based on



Bag Clip (PRINT IN PLACE CAM)

by Andrei

Model files



SLIC3R_PROJECTS_MMU2

2 files



1x_dinoclip_3x_color.3mf



5x_dinoclip_3x_color.3mf



STL_FILE_MULTI_COLOR

8 files



breakawaysupport.stl



jawteeth.stl



handlecam.stl



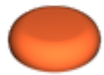
eyeone.stl



upperhead.stl



handlelever.stl



eyetwo.stl



jawcam.stl



STL_FILE_ONE_COLOR

1 file



dino_clip_v3_04.stl

Print files



MK3S_MMU2

2 files



5x_dinoclip_3x_color_02mm_pla_mk3smmu2s_16h53m.gcode

PLA 0.40 mm 0.20 mm 16.89 hrs 147 g

Prusa MK3S/S+ & MMU2S



1x_dinoclip_3x_color_02mm_pla_mk3smmu2s_6h21m.gcode

PLA 0.40 mm 0.20 mm 6.35 hrs 54 g

Prusa MK3S/S+ & MMU2S



MINI

1 file



dino_clip_v3_04_02mm_pla_mini_2h15m.gcode

PLA 0.40 mm 0.20 mm 2.26 hrs 21 g Prusa MINI / MINI+



MK3S

1 file



dino_clip_3_04_02mm_pla_mk3s_2h10m.gcode

PLA 0.40 mm 0.20 mm 2.17 hrs 20 g Prusa MK3/S/S+

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