

E34M1 Toolhead Filament Cutter

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Summary

A filament cutter that works with the Zero G Mercury movement system

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For the lever spring you will need a 5x20mm spring, a smaller spring can be used but the I.D. must not be below 3 as it goes around a m3 screw to keep it in place.

https://www.amazon.com/gp/product/B09C1DDHRV/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&th=1

For the cutter you will need a #4 hobby cutting blade cut to 28mm mounted with a 3mm hex screw

https://www.amazon.com/gp/product/B07QP8L1QG/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&psc=1

It's recommended to use the LW actuator arm that mounts directly to the X gantry. You will need slightly longer m3x35 screws to secure it down as it replaces the 3 screws that is used to hold the X gantry together

Revision 1: found that screw inserts on actuator arm LW are slightly too long. Reduced the length by 1.5mm

This remix is based on



Filament Cutter for EVA3, Orbiter, Rapido

by billyd

Model files



Hotend

2 files



cutter_right_eva3_dragon_uhf_mount.stl

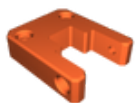


cutter_right_eva3_rapido_mount.stl



Actuator Arm

4 files

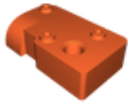


cutter-actuator-mount.stl



cutter-actuator-armlw.stl

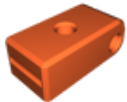
cutter-actuatorlw.step



cutter-actuator-armlw.stl



cutter_right_eva3_lever.stl



cutter_right_eva3_blade_holder.stl



cutter_right_eva3_beltgrip_lever_mountv12.stl



front_basicfilamentcutter.stl

cutter_right.step

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