



Recreator 3D MK5Kit Ender3 Pultrusion Unit



JRT3D

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updated 6. 7. 2025 | published 6. 7. 2025

Summary

DIY 3D Printer Filament created from PET1 plastic bottles The Recreator 3D - MK5Kit : Ender3 FREE DIY Build Project

[3D Printers](#) > [Creality Parts & Upgrades](#)

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Recreator3D.com - Turning PET1 Bottles into Filament with Repurposed 3D Printers

We're not just recycling—we're **recreating**. At [Recreator3D.com](#), we're transforming **PET1 plastic bottles** into **high-quality 3D printing filament** using **pultrusion technology**. But that's not all—we're also **repurposing old 3D printer parts**, like Ender 3 frames, extruders, and

motion systems, to build **custom pultrusion units**. Instead of tossing outdated machines, we're using them to power the recycling process itself.

Want to get started? **Recreator3D.com/quickstart** is your go-to resource. Whether you're looking for **how-tos, community builds, or project history**, everything you need is right there.

Looking to connect? Join the conversation, share your work, or get support from others working with **PET1 pultrusion and recycled 3D printer parts**:

Facebook Group: facebook.com/groups/recreator3d

Discord Server: discord.gg/jwPQqRsv6T

We're giving waste a second life—**come be part of it**.

Recreator3D.com - Less Waste. More Prints.
The Recreator 3D - MK5Kit : Ender3 DIY Build Notes - PET#1 Filament - Plastic Pultrusion
MK5Kit WRITTEN NOTES AND Build of Material List:
<https://docs.google.com/document/d/16sFIUdE-LeSszlq50VDYdONibqDdYnirY87DZcmqQhc/edit?usp=sharing>

Unit Build Notes and Parts to Buy can be found here: <http://recreator3d.com/mk5kitender3notes>

Operations Manual can be found here:

<http://recreator3d.com/manual>

Join Our Groups to Stay Up To Date!

FACEBOOK: <http://facebook.com/groups/recreator3D>

DISCORD: <https://discord.gg/vn2CH72bMq>

The Recreator 3D's purpose is to Recreate PET#1 recyclable plastic bottles into useable 3D filament.

The smallest, most compact, and portable pultrusion unit seen within the community. It's ability to strip, reform, color, and spool all in one continuous pull cycle.

This community kit should inspire most households and community team leaders.

The Recreator 3D, inspired by the XViCO X3S 3D printers. It's base structure, a few accessories, and a handful of 3D printed parts are all that was used.

The Recreator 3D will be 100% free as a community build.

I wanted to further adapt PET#1 recycling to be more accessible to every person even easier. With this goal; we'll reshape our future's recycling methods, One bottle at a time!

JRT

Joshua R. Taylor

<http://jrt3d.com/>

<http://recreator3d.com/>

<http://recycle3d.xyz/>

Model files



00 - Community Bottle Cutter V2

15 files



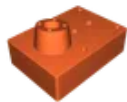
community-bottle-cutter-top-8mm-v2-pennies.stl



community-bottle-cutter-top-75mm-v2-pennies.stl



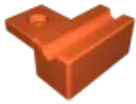
lead_screw_tr8x8.stl



community-bottle-cutter-middle-v2.stl



community-bottle-cutter-base-v2.stl



recreator3d-lead-screw-holder-right.stl

☐ Optional



recreator3d-lead-screw-holder-left.stl

☐ Optional



community-bottle-cutter-guide-optional.stl

☐ This part is OPTIONAL - It can help keep a straight feed but isn't 100% needed.



recreator3d-part-8b-bottle-weight-top.stl



recreator3d-part-8a-bottle-weight-bottom.stl



minispooler-top.stl



minispooler-bottom.stl



minispooler-bracket.stl



minispooler-mount.stl



recreator3d-cutter-plate-for-pbacc-tool.stl

☐ OPTIONAL : print this part if you bought PBACC Tool - It is the base mount for that tool only.



01 - Top Parts

21 files



recreator3d-part-2-heater-block-plate-ender-3-or-.stl



recreator3d-part-3-cooling-fan-plate.stl



recreator3d-part-4a-tensioning-rod.stl



recreator3d-part-4b-tensioning-rod.stl



recreator3d-part-4c-guide.stl



recreator3d-part-4d-tensioning-rod-spacer-old.stl



recreator3d-part-4e-tensioning-rod-spacer-old.stl



recreator3d-part-4f-tensioning-rod-printable.stl



recreator3d-part-5a-spool-holder.stl



recreator3d-part-5b-back-motor-mount.stl



recreator3d-part-5c-doublegear.stl



recreator3d-part-5d-smallgear-standard-version.stl

☐ Standard Version Motor Shaft



recreator3d-part-5d-smallgear-optional-geared-versi... .stl

☐ OPTIONAL - Some motors have a mounted hobbled gear. Use this version to press kit on.



recreator3d-part-6a-spool-gear.stl



recreator3d-part-6b-spool-core.stl



recreator3d-part-6c-spool-end-cap.stl



recreator3d-part-7a-spool-rod.stl



recreator3d-part-7b-spool-rod-nut.stl



recreator3d-part-7c-spool-rod-nut.stl



recreator3d-part-7d-spool-rod-spacer.stl



recreator3d-part-10-handle.stl



02 - Bottom Parts

15 files



mk5kit-ender3-faceplate.stl



mk5kit-lcdmount.stl



mk5kit-rightsidecaselcd.stl



mk5kit-middlecase.stl



mk5kit-leftsidecase.stl

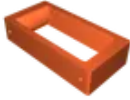


mk5kit-feet-6x.stl

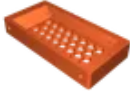
☐ Print 6 of these from TPU.



mk5kit-lcdknob.stl



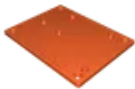
mk5kit-middleleg.stl



mk5kit-leftleg.stl



mk5kit-rightleg.stl



mk5kit-ender3boardmount.stl



mk5kit-handle-2x.stl



mk5kit-handlewithsidemount-2x-optional.stl

☐ OPTIONAL - Print instead of Standard if undrilled tapped mounting holes - us optional T-Nuts .



mk5kit-slimpowersupply-2x.stl



mk5kit-largepowersupply-2x.stl



03 - SIGNAGE BRANDING

5 files



recreator3d-part-9d-front-sinage.stl



recreator3d-part-9a-front-sinage.stl



recreator3d-part-9c-front-sinage.stl



recreator3d-part-9b-front-sinage.stl



mk5kit-mk5-kit-signage.stl



04 - OPTIONAL ACCESSORIES

2 files



recreator3d-colorizer.stl

☐ Optional



minispooler-spooler-winder.stl

☐ Optional - Attach to a motor for automated Mini Spool Winding



05 - Extras - Fun Things to Print

6 files



captainrecreatorstandupright.stl



captainrecreatornostandbottle.stl



captainrecreatorstandbottle.stl



the-recreator-3d-keychain.stl



the-recreator-3d-token.stl



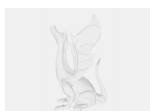
recreator3d-pet1-color-swatch.stl

Other files



00 - Notes

2 files



parts-list-for-mk5.txt



le-recreateur-3d-manuel-dexploitation-fr.pdf



01 - Top Parts

1 file



notes.txt



02 - Bottom Parts

2 files



notes.txt



notes.txt



03 - Modifications

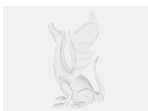
3 files



notes.txt



notes-parts-list.txt



notes-the-recreator-3d-community-bottle-cutter.pdf



04 - SD Card - gCode Files

1 file



04-sd-card-gcode-files.zip

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