



Flexi Rex with stronger links

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Summary

This is my improved version of the classic Flexi Rex.



2.42 hrs



1 pcs



0.20 mm



0.40 mm



PLA



19 g



Prusa
MK3/S/S+

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Tags: [dinosaur](#) [flexi](#) [flexible](#) [printinplace](#) [trex](#) [toy](#)
[tyrannosaurusrex](#) [flexirex](#) [rex](#)

This is my improved version of the classic Flexi Rex. Somehow this version became the most popular one, maybe just because it doesn't break easily when handled by kids.

I uploaded this model to Printables for everyone's convenience. **The primary source for this model remains its [GitHub repository](#) where you can find the latest updates** (although there probably won't be many), the model's history, and detailed instructions.

[Go to my site for an overview of my other models](#) (not all of them are published on Printables).

Attribution:

This is a remix of Kirbs' Flexi Rex ([Thingiverse thing:1759297](#)), based on airfish's remix ([Thingiverse thing:2189652](#)). That model in turn was most likely inspired by the 'Flexy Rex' by zheng3 ([Thingiverse thing:929413](#)).

The reason why I made this version is that my print of Kirbs' original model was not very kid-proof: one of the links broke after some rough handling. Hence I made all links more robust. This means this model can probably be printed even smaller than the original ones before the links become too weak. Of course you can also scale it up at will.

Update 2022/08/30

The model is now more balanced and should be less inclined to face-plant. The trick of using more infill for some parts should no longer be needed. Also, balancing the model on its tail should be easier, although it still depends on your particular print settings and accuracy.

If you want an even more flexible version of this model, try the '[Flexier Rex](#).'

If you want to print this larger than your printer allows and don't mind some manual assembly, try the [separate parts version](#).

Note to anyone wanting to sell this:

You can sell prints of this model without having to ask explicit permission, but you must honour the Creative Commons - Attribution - Share Alike license. [See the GitHub page for detailed instructions](#).

(And yes, if you see other copies of this model on this site that do not refer to this original, either through the old Thingiverse page, the GitHub page, or this very page, they are violating the CC-BY-SA license indeed. But since I'm not the author of the truly first main design either, I won't make a fuss about it and trust that everyone will eventually update their copies with a link to the original source.)

If you want to remix this:

If you publish your remix on Printables, all you need to do is enable the "This is a remix" checkbox and select this model (46241), and also give your model the same Attribution-ShareAlike license or something stricter. If you publish it elsewhere, [follow the instructions from the GitHub page](#).

If you see an injection molded variant being sold:

If it does not have attribution (links to the GitHub page), and does not provide their modified model under the same or a compatible license, it violates the license. [More details here.](#)

(Also, you can easily 3D print 4 or 5 Rexes for the same price as they're asking.)

Print instructions

The recommended print settings are:

- 0.2 mm layer height
- 3 perimeters (important, to make the links strong)
- 15% infill

Expect about 2.5 hours print time for a good quality print.

Don't use a high infill value, this could cause it to become unbalanced. For improved stability, you could increase infill on the piece with the feet below it, but this should no longer be necessary with the newest model.

A PrusaSlicer 3MF project file with the recommended settings and a pre-sliced gcode file are provided for the i3 MK3.

This remix is based on



GitHub - DrLex0/print3D-FlexiRex: 3D Print - Flexi Rex with stronger links

Model files



flexi-rex-improved.stl

📄 2022-08-30 update: more balanced model



flexi-rex-improved-v2-prusai3mk3.3mf

📄 2022-08-30 update: more balanced model

Print files



flexi-rex-improved-v2-prusai3mk3_02mm_pla_mk3_2h25m.gcode

🌀 PLA 📏 0.40 mm 📐 0.20 mm ⌚ 2.42 hrs ⚖️ 19 g 🖨️ Prusa MK3/S/S+

📄 2022-08-30 update: more balanced model

[Find source .stl files on Thingiverse.com](#)

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