



FlexiDinos Bertha the flexi Pterodactyl print in place articulated dinosaur



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[VIEW IN BROWSER](#)

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Summary

My third flexi dino model. This time it's a Pterodactyl, as Pteranodons don't have teeth. Duh.

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Edit, 23. 7. 2026: Updated the MOST 1:100 version and cover image.
Added MOST 1:100 description.



MOST 1:100 explained

MOST stands for Magnetic Open Source Toys. 1:100 is the scale. These are the rules:

1. 1 real meter = 1 toy cm
2. Use Ø 5mm × 2mm neodymium magnets
3. North is always facing upwards

It's easy: 1 meter in the real world is 1 centimeter in the toy word. A 5 meter car becomes a 5 centimeter toy. A 2 meter tall hero becomes a 2 centimeter action figure. To ensure compatibility between all toys the north pole of the magnets always faces upwards.

It's like Gridfinity but for toys! You can read the long version [here](#).

WARNING:

SWALLOWING MAGNETS MIGHT BE FATAL!!!

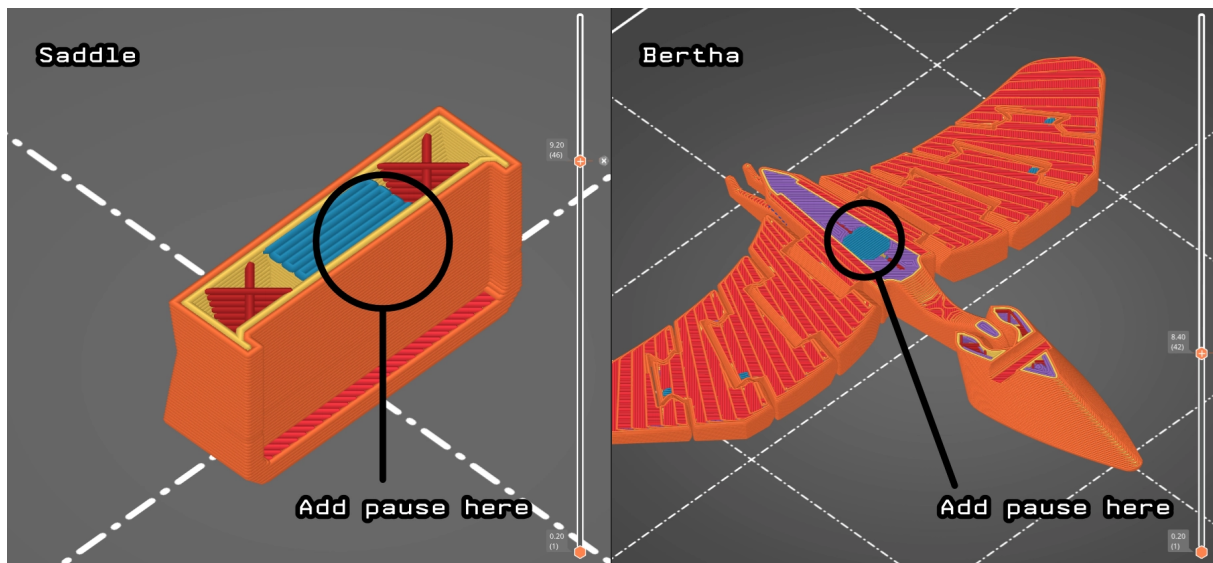
Magnets and 3D printed parts are in no way suitable for small children. They might break and leave sharp edges, so make sure the kids are old enough to know what they're doing!

Also make sure you don't have a steel nozzle inserted as it might pick up the magnets while printing and ruin something.

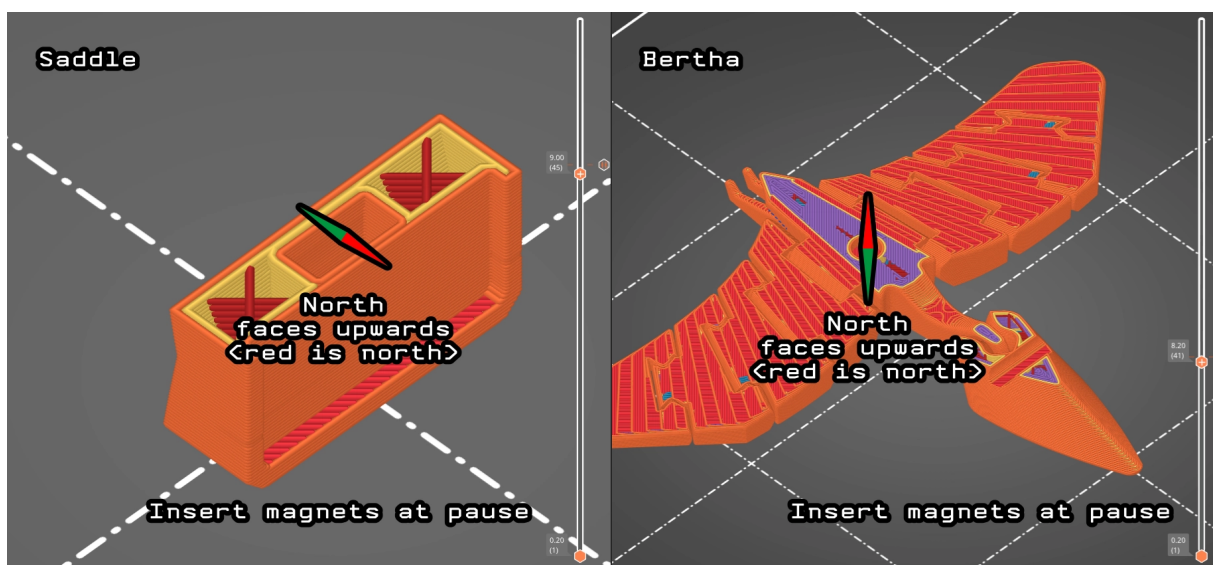
Print instructions

1) Open the .3mf as project in PrusaSlicer, adjust settings according to your taste. Every pause is pre-dialled. Skip step 2) and insert the magnets as explained in step 3).

2) If you're more of a masochist tinkerer use the .stls, navigate to the according layers, insert a pause in the slicer (right click on the slider at the according layer in PrusaSlicer).



3) Insert the magnets according to the screenshots below. North always faces up according to the orientation of the model – hence the different orientations for the inserts. Determine north as explained in [this article](#).



4) Get [Thag the dino jockey / snack](#) and start riding!



Thanks to all my club members for making this possible. If you like the model, consider [becoming one yourself](#).

If you want to support me without costs, tell your friends and share my models on your social media! <3

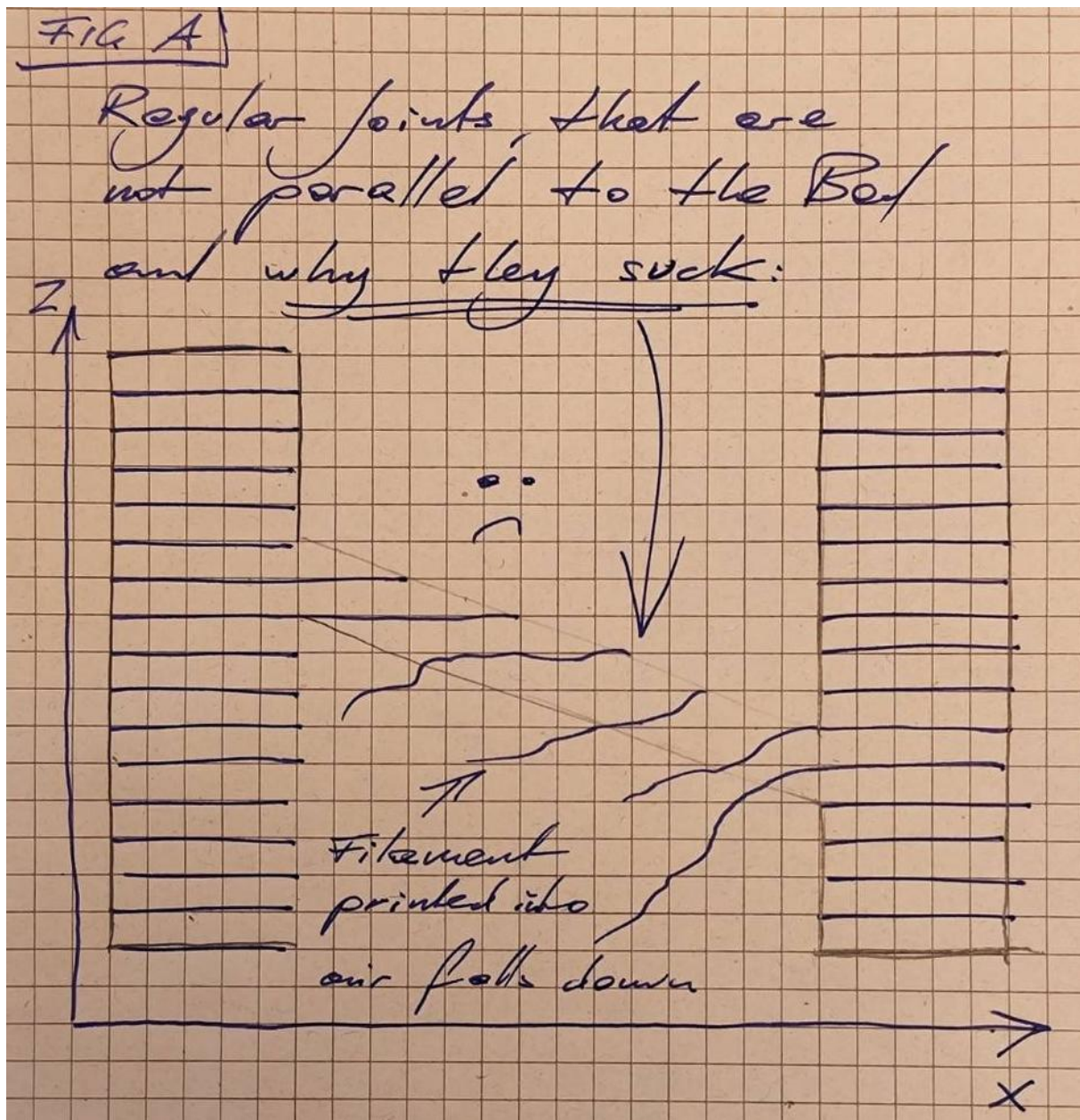
If you have questions and inputs get in touch! Happy printing!

EDIT 29. 12. 2025: updated the model with a better leg joint and wigglier tongue.

After the long extinct [Günther](#) and [Theobald](#) I needed to make another flexi dino quick, for the current [contest](#). Luckily I had one neglected in the basement already (according to tradition here). So I dragged her out and finished her up. As I got such positive vibes for Theobalds mouth I decided to make that a thing. Tongue should flap out easily.

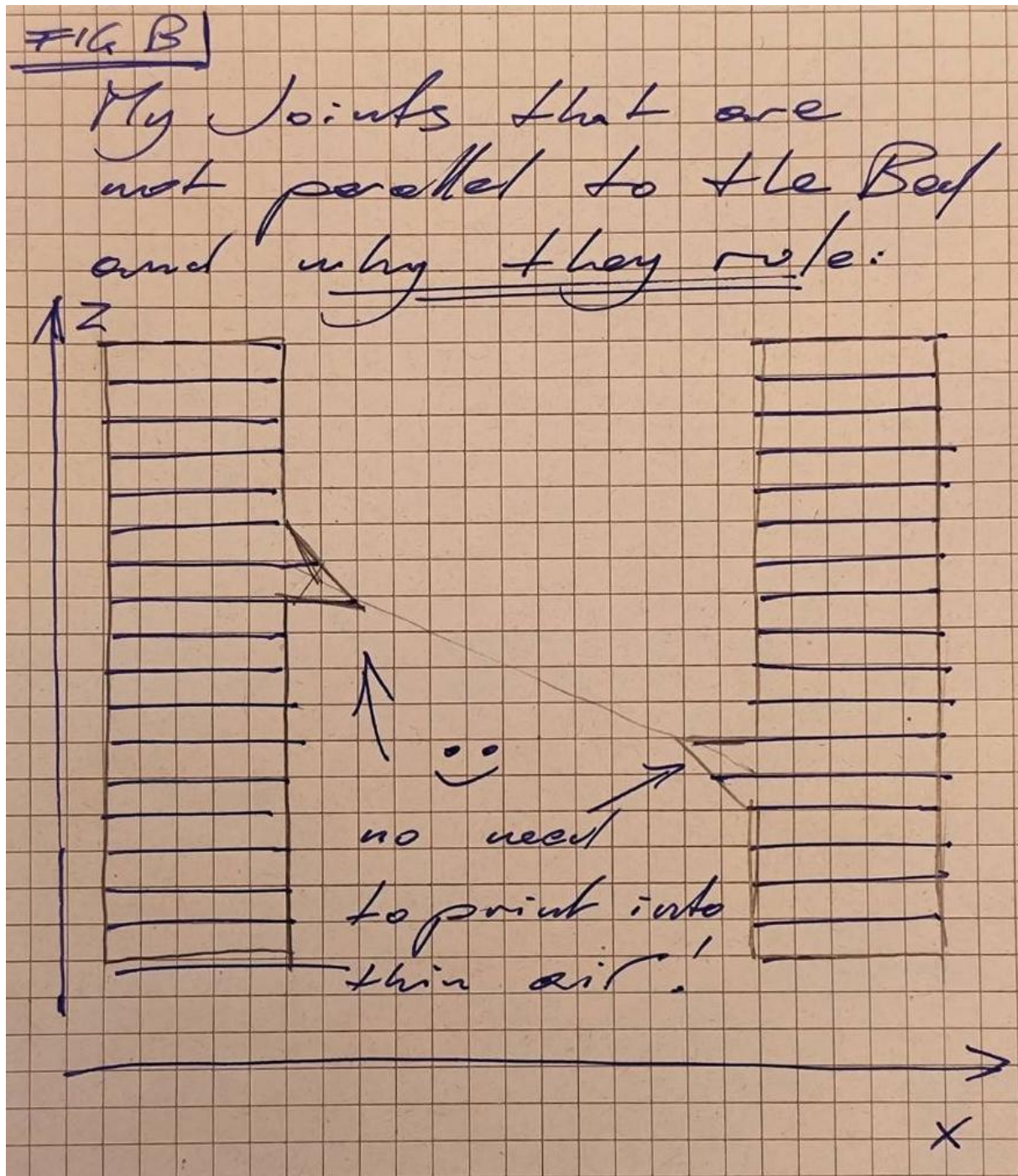
Her full name is "Bertha Felicita Freifrau von Sutanto, geborene Gräfin von Kinsky" so you better bow before her or she will bite your head off. She was named by one of my lovely supporters. If you want a chance to name my next dinosaur you should become a Club Member!

Fig. A: Why other joints suck



I had to develop a new type of joint here, because I wanted them not to be parallel to the bed to give me more options in designing the wings. These new joints are not **interlinked** as in the usual models. They are merely two cones going into the adjacent body.

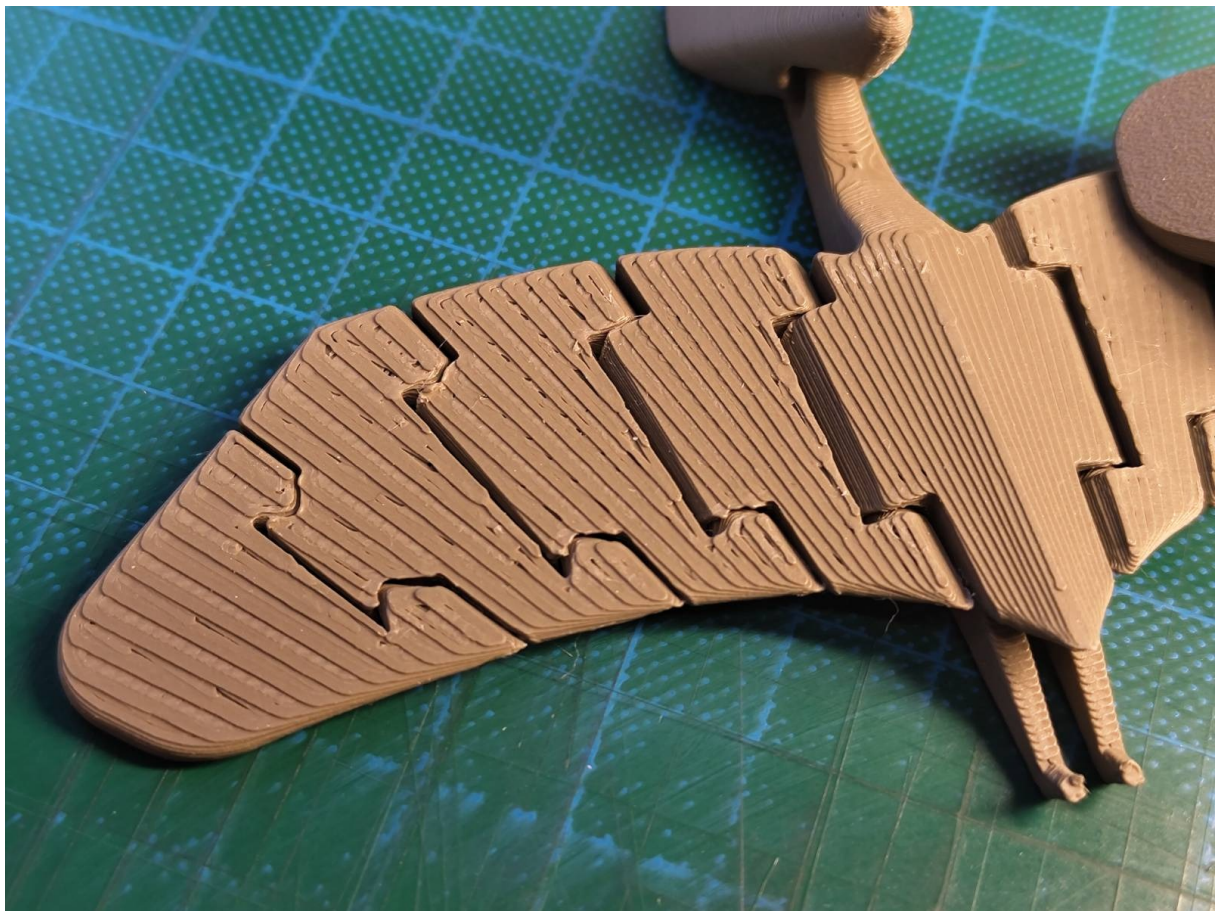
Fig. B: Why these rule



The second advantage over the previous method is the possibility to print the model really small without having to pay attention to the thickness of the links. One of my design goals in the dinosaurs is always to be able to print them fast and small, as I hand them out to everyone I meet (Yeah, creepy playground-"uncle"-style).

There is even a third advantage: the distance between start and endpoints of the joint doesn't matter as there is no need for bridging. That's a huge benefit for lazy guys like me who don't want to tune their settings.

I just managed to print her at 50% with a .6 nozzle and even the tongue keeps kinda in place:



<- Please also note the layers on top of the wings follow the joints instead of just going straight ahead as a lazy designer would do it. Yes, I'm a nerd.

Designers note:

There may be some iterations in the future as I am not completely happy with the outer joints of the wings yet but I'm in a bit of a hurry and this means reconstructing a major part of the model. I have to do a lot of work in my main job at the moment but want to enter the contest, so stay tuned for updates when I have more time in the next few weeks. This is usually not the quality I strive for when I publish a model. But perfection takes another 1-2 weeks of tinkering which I don't have at the moment.

Edit:

I just uploaded a model with flexi legs. As some of you amazing guys provided feedback, that the upward flexiness of the outer wings makes the model posable as walking, I decided to keep this happy little accident. But to improve the effect the legs have to touch the ground. So I added a joint here. I haven't printed the new version yet but hope it works. I might still add some improvements in the next days.

Another Edit (Jan 2025):

Switched the option of supporting me on Patreon to becoming a club member.

Happy printing and lemme see your makes!

I can't stress this enough, so I'm going to write it down here: FlexiDinos are in no way suitable for small children. Parts can break off and leave sharp edges, so make sure your children are old enough to know what they're doing before letting them play with FlexiDinos!

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If you like this model, I have created a lot of other cool FlexiDinos. You can support my work and get exclusive stuff by becoming a **Club Member.**

- Stegosaurus **Günther** and his younger brother **Fünther** (the 2025 Update)
- Triceratops **Theobald**
- Pterodactyl **Bertha**
- T-Rex **Tessa** (free) and an **improved Version** (paid model)
- Brachiosaurus **Ginko** (paid model)

- Ankylosaurus **Gregor** (paid model)
- Velociraptor / Deinonychus / Utahraptor **JJ** (paid model)
- Dimetrodon **Karli** (paid model)
- Parasaurolophus **Filip** (paid model)

//////////////////////////////////**You want a new model for free every month that is normally hidden behind the paywall? Check the **FlexiDinos Model of the Month** regularly!**

Model files



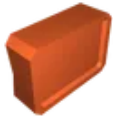
flexidinos-most-bertha-pterodactyl-v354.3mf

☐ FLEXIDINOS MOST 1:100, insert magnet at pause, north faces up



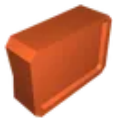
flexidinos-most-bertha-pterodactyl-v354.stl

☐ FLEXIDINOS MOST 1:100, insert magnet at pause, north faces up



flexidinos-most-bertha-pterodactyl-saddle-v354.3mf

☐ FLEXIDINOS MOST 1:100, insert magnet at pause, north faces up



flexidinos-most-bertha-pterodactyl-saddle-v354.stl

☐ FLEXIDINOS MOST 1:100, insert magnet at pause, north faces up



flexidinos-most-bertha-pterodactyl-v352.3mf

☐ FLEXIDINOS not to scale flexi toy



flexidinos-most-bertha-pterodactyl-v352.stl

☐ FLEXIDINOS not to scale flexi toy

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