

Megalodon Tooth Display Stand

Gives a printed fossil the presence of a real one.

One Piece

Tree Supports

2 h 36 m

Built by MakerX Designs · Virginia Beach, VA · makerxdesigns.com · © 2026

My son-in-law loves megalodon teeth, but a real one runs into the hundreds of dollars. So he printed one — and it ended up lying flat on a shelf looking like a printed part rather than a fossil. This is the stand I designed to fix that.

In the download

File	What it is
makerx-megalodon-stand.3mf	Start here. Oriented, with the tested profile and supports set up.
makerx-megalodon-stand.stl	The raw mesh for your own slicer.

1 • The tooth is not included

Download the tooth separately — and credit the museum

This stand was built around **"Megalodon fossil shark tooth"**, specimen BIRUG 14906, scanned and published by **The Lapworth Museum of Geology** at the University of Birmingham through MyMiniFactory's Scan the World project, licensed **CC BY-NC-SA 4.0**.

myminifactory.com/object/3d-print-megalodon-fossil-shark-tooth-81202

That scan has been re-uploaded to several other sites by people who are not its creators. The museum is the rights-holder — please credit them, and keep the tooth file separate from this one rather than redistributing the two together.

2 • Slice it

- 1 Open `makerx-megalodon-stand.3mf` in Creality Print, or any slicer that imports 3MF project files.
- 2 When it asks whether to load the project's print settings, **say yes** — it brings the support setup with it.
- 3 Confirm your printer and filament, then slice. It prints flat, 40 mm tall, in well under three hours.

Supports are required here — leave them on

The cradling arms reach out over open air, so they have nothing to print onto. Tree supports on auto at a 30 ° threshold are part of the shipped profile and the slice really does build them: about **1.54 g** under the arms, which twists off by hand.

3 • The profile baked into the 3MF

Quality	
Layer height	0.12 mm
Walls	3 loops
Top / bottom	5 / 3 layers
Infill	9 % gyroid
Brim	Outer only, 5 mm

The part	
Size	134 × 108 × 40 mm
Parts	1, no hardware

Material & plate	
Filament	PLA as sliced
Nozzle temp	220 °C
Bed temp	60 °C
Sliced on	Creality Hi, 0.4 mm nozzle

What it costs you	
Print time	2 h 36 m
Filament	48.10 g · 16.13 m
Rough cost	\$0.87

★ Print it in something dark

A black, dark gray or stone-filled filament reads as a museum plinth and lets the tooth be the thing you look at. A bright color competes with it.

4 • Off the plate

- 1 Let the plate cool, flex it, and lift the stand off.
- 2 Peel the outer brim away from one corner.
- 3 **Twist the tree support out from under the arms.** It is anchored to the undersides of the two cradling arms and generally lets go in one or two pieces.
- 4 Run a fingernail along the inner faces of the arms. Those are the surfaces the tooth rests against, so anything left proud there will hold it at the wrong angle.

5 • Set the tooth in it

- **Point down, root up.** The arms cradle the tooth point-down, echoing how it sat in the jaw. It reads as a specimen rather than as an object on a shelf.
- **Let it lean into the arms.** The vertical support behind counterweights them, so the tooth tips slightly forward for viewing without the stand going over.
- **Nothing grips or glues.** It lifts straight out whenever you want to handle it, which is most of the point of owning one.
- **Check it on the actual shelf.** Ours lives on a red kitchen shelf; a stand that balances on the bench can still rock on a lipped or uneven surface.

6 • Making it yours

- **A bigger or smaller tooth.** Scale the whole stand uniformly — the arms and the counterweight are proportioned to each other, so scaling one axis alone will unbalance it.
- **A different specimen entirely.** If you are displaying something other than the scan this was built around and the cradle does not suit it, leave a comment with the dimensions.
- **The mark.** There is a debossed MakerX mark on the underside, out of sight.

Where precision meets the printer

Thanks for printing this one. It exists because a printed fossil deserved better than lying flat on a shelf.

For years my design world existed entirely behind a screen. As a mechanical engineer I spent countless hours building complex CAD models, but there was always a missing link — the ability to hold an idea in my hands. That changed in January 2026, when I went headfirst into 3D printing. The moment that first layer stuck to the bed, the gap between concept and reality vanished.

Coming from a background where precision is everything, tolerances aren't suggestions to me — they are a religion. I didn't want to print trinkets; I wanted to apply industrial engineering discipline to desktop manufacturing. Every wall count, every layer height and every infill percentage in this guide is a deliberate decision backed by testing.

Three principles behind every print

01**Functional Engineering**

High-utility, real-world solutions rather than purely decorative models. If it doesn't solve a practical problem, it doesn't leave the workstation.

02**Rigorous Tolerances**

Designed in professional CAD with mechanical intent — press-fits that click and assemblies that work straight off the build plate. No sanding, no filing, no guesswork.

03**Bridging the Gap**

Industrial structural integrity at maker speed. Proving a desktop printer can produce parts worthy of real engineering applications is what drives every release.

The workshop

Mechanical engineering degree · SolidWorks precision modeling · two Creality Hi printers · Virginia Beach, Virginia · every design free to download.

A note on sharing

I'm thrilled when people use and share these designs. I just ask that you respect the license shown on the model listing and give the required credit.

IF THIS ONE EARNED ITS SPOT

A **Like** or a **Favorite** on the model page takes a second and genuinely helps. A **Boost** helps more than either — it is what puts a design in front of makers who would never otherwise come across it.

And please pass the credit for the tooth back to the Lapworth Museum. Free scans of real specimens only keep coming while the institutions sharing them get something back for it.

Happy displaying. — MakerX Designs · makerxdesigns.com · © 2026