Printables by JOSEF PRUSA



Articulated Manta Ray

Jopek Design

VIEW IN BROWSER

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Summary

Print in place Articulated Manta Ray

Toys & Games > Action Figures & Statues

Tags: toy mmu multicolor animal design fidget fidgettoy ocean sea articulated flexible flexi printinplace fish shark ams



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Meet the Articulated Manta Ray! It prints in place, articulates right off the buildplate, and no assembly or post processing is required. You can choose between a singlecolor and a multicolor version.

The multicolor version requires a toolchanger or an automatic filament swap system (MMU, AMS, CFS or similar). It is not recommended to print the individual parts separately and then assemble them, the model files are not designed or optimized for this workflow.

This design is a part of the Articulated Sea Life collection by me. You can check out other designs from this collection here.

The Articulated Sea Life collection is a live project, and I'm continuously adding new designs, anytime I get an interesting idea, or a suggestion. The designs are also updated, if any changes or tweaks have to be made. Feedback, suggestions and ideas are welcome!

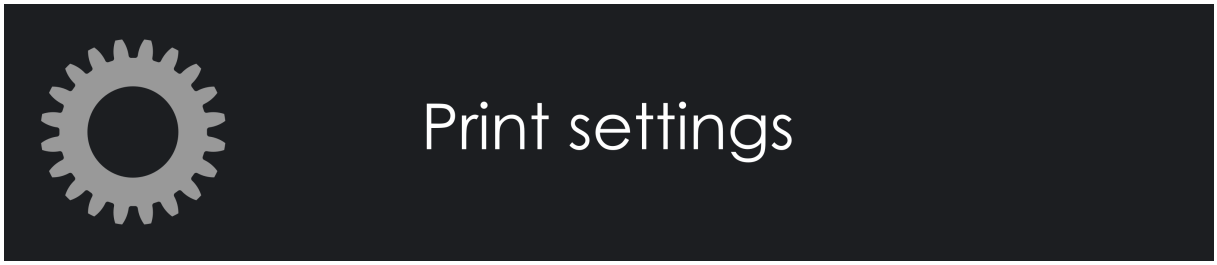
Dimensions (LxWxH)

158 x 170 x 21 mm (100% scale)

Included Files

I've included two .3mf project files for PrusaSlicer (singlecolor and multicolor), as well as .stl files for best compatibility with other slicers.

If you're creating your own multicolor project file from scratch: import the two included **.stl** files from the multicolor folder at the same time into your slicer as **one file with multiple parts**, the slicer should automatically align all the parts, and assign an individual color to each of them. Each stl file is named after the color used for the example print.



Material

PLA

Layer height

0,2 mm

Infill

>15%

Support

None. This model doesn't require any support material.

Scaling

This model should come out perfectly functional even at lower scales. Tested up to 60% of the original scale. Results may vary depending on the accuracy of your setup and quality of the materials used.

Orientation

Default, laid flat on the belly

Adhesion aid

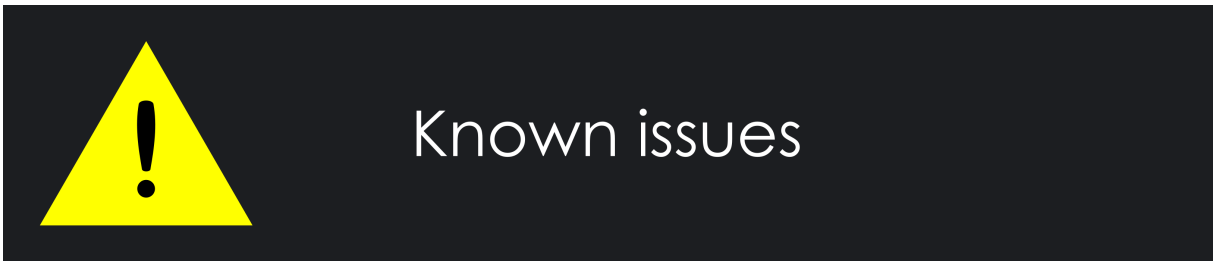
Unnecessary, the contact surface with the buildplate should provide sufficient adhesion. However if your print surface suffers from poor adhesion, consider using an adhesive spray, or some other kind of adhesion booster. Using a brim is possible, but not recommended, as it would be too difficult, and inconvenient to remove afterwards.



All resolved issues with the model files and detailed information about their fixes will be listed in this section. If you're having any problems which aren't on this list, please visit the **Known issues** section below. If you don't see your problem mentioned there as well, please leave me a message with more details about your issue, so that I'm able to address it as soon as possible.

03/21/2026

Edited the model description to make it more comprehensive and to avoid any potential confusion regarding multicolor files.



There currently aren't any known issues/work in progress. If you run into any, please contact me via dm.



My models are free for personal, non-commercial use. If you want to sell, or monetize them in any other way, please visit my Patreon or my Printables Club for more licensing options.

Model files

Multicolor 3 files

articulated_manta_mc_prusaslicer.3mf

Project file for PrusaSlicer

articulated_manta_black.stl

Black parts

articulated_manta_white.stl

White parts

Singlecolor 2 files



articulated_manta_sc_prusaslicer.3mf

Project file for PrusaSlicer



articulated_manta.stl

Singlecolor stl

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