



Articulated Spider



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Summary

This spooky spider is fully articulated and can even dangle from a web of filament!



2.95 hrs



1 pcs



0.15 mm



0.40 mm



ASA



24 g



Prusa MK4

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Tags: [spider](#) [articulated](#) [balljoint](#) [posable](#)

Updated 10/30/2023: Based on a lot of the comments, you may need extra clearance on the eye part. In PrusaSlicer, you can set an "XY size compensation" of around -0.1 to get more clearance without shrinking the whole part. Other slicers should also have this feature although they may have a different name for it. Also, make sure that you aren't getting too much elephant foot on the parts as that can also make assembly difficult.

Also, thanks for the front page feature! :D

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This spooky spider is fully articulated and can even dangle from a web of filament! Great for Halloween decorations, party favors, or just to play with at your desk.

Instructions

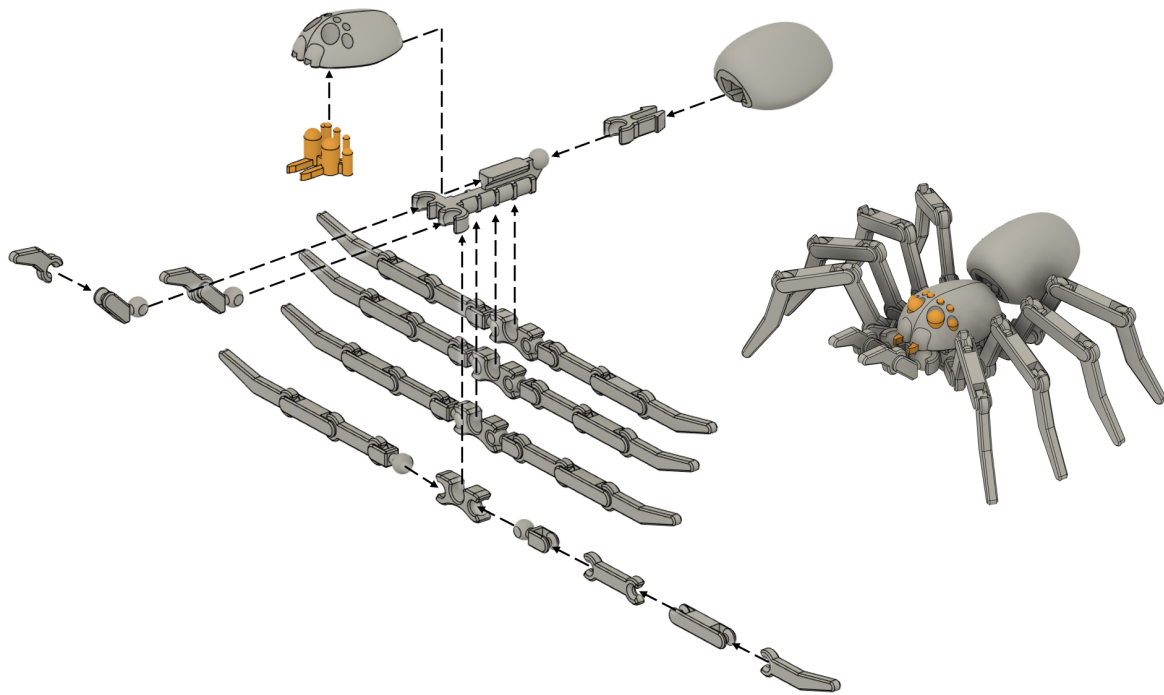
The included 3MF file has all the parts you will need, or you can print individual parts with the quantities called out in the file names. Print the eyes separately if you'd like them to be a different color (no MMU/AMS needed).

TIP: Start by printing just one set of leg parts for a test fit. If the joints are too tight or too loose, you can adjust the fit with the “XY size compensation” setting in PrusaSlicer (or the equivalent in your slicer of choice).

Recommended print settings

Material	PETG, ABS, or ASA for best results PLA is okay but may be tougher to assemble and will get floppy over time.
Layer height	0.15 mm
Infill	10-20% rectilinear
First layer speed	25% of default
Supports	None
Brim	None (may be needed in case of poor bed adhesion)
Additional settings	Print external perimeters first

Once the parts are printed, assemble them as shown below. All parts should snap-fit into place, no glue needed.



TIP: The moving joints need to be “broken in” to smooth out imperfections in the print. Just move them back and forth a few times as you assemble them.

And just like that, your articulated spider is complete! Have fun posing and displaying it however you like. You can even insert some 1.75mm filament into the abdomen to have your spider dangling from a web! (How's that for “silk” PLA?)

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Model files



Individual parts

12 files



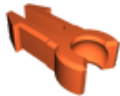
body-frame.stl



carapace.stl



eyes.stl



abdomen-frame.stl



abdomen.stl



leg-socket-4x.stl



leg-segment-a-8x.stl



leg-segment-b-8x.stl



leg-segment-c-8x.stl



leg-segment-d-8x.stl



palp-segment-a-2x.stl



palp-segment-b-2x.stl



spider-all-parts.3mf

☐ All parts (and the right number of each)

Print files



spider_asa_mk4is_2h57m_24g.gcode

ASA 0.40 mm 0.15 mm 2.95 hrs 24 g Prusa MK4

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