



Articulated MWO Hunchback (Remix)

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Summary

This is a Re-Mixed Hunchback, Leaning on parts of the base from Wolfking. It's poseable, articulates, and needs no...

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This is a Re-Mixed Hunchback, Leaning on parts of the base from Wolfking. It's poseable, articulates, and needs no glue to hold together. I've changed over the connection scheme to using pins, and a ball socket design, along with a few other tweaks to get the parts to be a bit more printable.

Print List:

1 Foot, 1 Foot Mirrored

1 Lower Leg, 1 Lower Leg Mirrored

1 Upper Leg, 1 Upper Leg Mirrored

2 Knee Pins

1 Waist

1 Torso (Recommend rotating so the nose points up at about 45, or 60 degrees)

1 Upper Arm, 1 Upper Arm Mirrored

1 Lower Arm, 1 Lower Arm Mirrored

2 Arm Pins

7 Split Joints

Optional - 1 Split Joint Installation Tool. This makes putting in the little split joints much easier, but a 7mm wrench can be substituted if desired.

Printing Instructions -

The joints probably should be PETG as they are designed to flex a little when installed, but the rest of the thing should work fine with PLA. The joints may work in PLA too, but i haven't tested them using it. Use supports, and be careful about orientation when placing the parts on the bed. Also, Note: When printing the split joints, and pins, place the flat face on the side on the bed, as this helps with strength. I also recommend printing at a 0.16mm layer height, to help with a few of the overhangs on the back of the mech, but that can be seasoned to taste.

Assembly Instructions:

To install the split joints, first put each into a hole with the little lugs inside. Then twist about 90 degrees to lock it in place. The expectation is that it fits in fairly tightly, but If the fit is too tight, or too loose, re-print the split joint, changing the scale by 1 or 2 percent. A second tip on fit up is to use a small piece of paper wedged between the joint and main body when assembly, in order to tighten up the locking lugs.

Other notes:

I've tested the joints between about 70% and 120%, so scaling the mech a bit up or down shouldn't be a problem.

Print Settings

Printer Brand:

Creality

Printer:

Ender 3

Rafts:

No

Supports:

Yes

Resolution:

0.16

Infill:

20

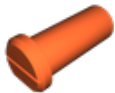
Filament: Overture PETG

Category: Model Robots

Model files



hunchback_foot.stl



hunchback_arm_pin.stl



hunchback_upper_arm.stl



split_joint.stl



hunchback_lower_leg.stl



hunchback_waist.stl



hunchback_torso.stl



hunchback_lower_arm.stl



hunchback_knee_pin.stl



split_pin_removal_tool.stl



hunchback_upper_leg.stl

[Find source .stl files on Thingiverse.com](https://www.thingiverse.com)

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