



Talon - Version 1



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Summary

Mostly just having some fun with this print (although I do have some ideas for using this down the road).

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Mostly just having some fun with this print (although I do have some ideas for using this down the road). There are only two pieces to this: the talon and the stand (the ball is not included, but there are plenty of other options for that available at the usual places). The claw has a plug at the bottom end for mounting in a socket in the stand. Here are some dimensions you may find useful:

The claw is made for a ball with a diameter of 2.5 in. (63.5 mm). The plug has a diameter of 0.45 in. (11.43 mm) and a length of 0.45 in. (11.43 mm); the plug also has a 1 degree taper to make it easier to fit it into the socket hole.

I plan to make this model will be made in several different variations, which is why this is version 1.

Version 1 : Talons are rounded, and the claws extend above the center of the ball (this can make it a bit difficult to insert or remove the ball). The "finger pads" on the talons are raised, so the ball sits a bit high in the grip.

The original model was created in OnShape 3D CAD - the relevant CAD file is available here:

<https://cad.onshape.com/documents/0716787efa057a8839b09f7f/w/1e343278069a753c83a7de07/e/98bedb8e584a90d0fac62631>

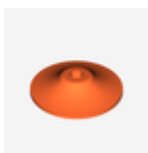
Print instructions

Print with a brim and supports; I have had success with "Support on build plate only" - if the "Everywhere" option is chosen the claws may be difficult to remove from the supports without breaking.

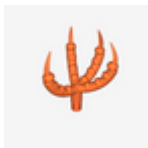
It may be possible to print with no supports, but I have not tried this. Another option might be custom supports.

An issue that needs to be addressed is the small contact area on the plate - when I tried printing with supports and no brim the print broke free from the bed.

Model files



talon-base.stl



talon.stl

[Find source .stl files on Thingiverse.com](https://www.thingiverse.com/thing/4444444)

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