



Bomaker C9 Projector Ceiling Mount

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Summary

A ceiling mount for the Bomaker C9 for downward projection.

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The **Bomaker C9** is a nice and cheap projector that's popular for pattern cutting. The pattern is projected onto the fabric from above, and the fabric can be quickly marked and cut without needing to work with unwieldy paper patterns.

The only tricky part is that it's not trivial to hang the projector vertically - as you want the lens pointing down. I couldn't find a mount that would both hold the projector safely and keep it as close as possible to the ceiling, which you want in order to get the largest projection possible.

So, I made this mount - you bolt it to the ceiling and slide the projector into it from the side - easy as pie. The distance from the ceiling is about 1cm (the thickness of the mount wall).

Note about the design -if you're wondering what those 2 bends on one side of the mount are - because the projector slides in from the side, I needed

to account for the feet and leave about 4mm for them to slide under while keeping everything tight. The result is a very good fit, and the projector is held firmly.

Which model to use

- If your printer is large enough (185mm), you should use the single piece model, which should be easy to print and super strong.
- If (like me) your print volume is too small to print the whole thing in one piece, you can use the top & bottom models. This is almost the same design, only it is split down the middle with a chunky interlocking tooth to hold it together once it's printed. The split design also has the benefit of making it very easy to access the screw holes during installation, as you only snap the bottom on after bolting the top.

Printing

For the single piece model, print the model on its side.

For the top/bottom models - no orientation is ideal because of how the interlocking tooth is designed, but I printed the parts standing up, using supports for the tooth parts that needed it, and everything came out strong enough (the projector is about 1.4 KG which is not too bad).

My print configuration -

Layer height: 0.2 mm

Infill: 25% hex

Raft: None

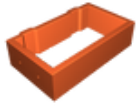
Brim: None

Installation

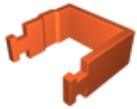
There are 2 screw holes in the top part of the model, with large countersunk circles. Use 2 screws that fit the ceiling you're installing on, and place 2 metal spacers between the screw heads and the mount to spread the pressure and not punch through the plastic.

USE MOUNTING HARDWARE FIT FOR YOUR CEILING AND GIVE EVERYTHING A NICE TUG ONCE YOU'RE DONE INSTALLING TO MAKE SURE IT'S STRONG - remember that this will hang over someone's head (presumably someone you like!).

Model files



projector-mount-single-piece.stl



projector-mount-bottom.stl



projector-mount-top.stl



projector-mount-single-piece.3mf

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