

## Skeleton mount for Ender 5 - Orbiter 2 & BMS



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### Summary

lightweight, and works great.

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Simple “skeleton” mount for the Phaetus Dragonfly BMS hotend and Orbiter 2 extruder.

Ender 5 x-axis carriage plate.

2-m3 heat inserts used for the Orbiter mounting holes, put in from underneath.

4010 axial fan for the front, 5015 blower motor for the side.

I use the CR-Touch, but the BL should work iirc.

edit:: I forgot that I flipped the belt on the side of the 5015 so that the brass clamp faces back into the extrusion (there wasn't another option that I could come up with unfortunately). It seems to work good enough with no rubbing issues on my machine. Sorry I had forgotten this point. Also, the ptfе tube is around 45mm to fit in the hotend and through the top of the model and into the recess of the Orbiter 2 extruder. The

extruder sits in a “backwards” configuration where the motor is above the extrusion facing away from the hotend (see pics).

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more edits jan 9th '23 - added a v02 and v02b of the model. The v2 has the recess added for the belt to not be pinched, and the v02b has the slin nut inserts added for the orbiter 2 extruder, as well as for the abl mount. Currently untested, so use at own risk until I print and test them out.

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Frankenstein'd together from parts of various other setups. Is basic and not very pretty, but it works great imo (3 months in and no issues so far). Put together as usual in Tinkercad.

Comments and suggestions are always welcome! Thanks for looking!

## Model files

 **untested** 2 files

**e5-skele-v02-orb2-bms.stl**

**e5-skele-v02-orb2-bms-nutted.stl**



**lightweight-e5-bms-orb2-gg.stl**

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