



## Direct Drive Ender 3 (Pro) Dual Gear Hero Me Gen 6

 **JunkieNL**

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### Summary

Direct Drive conversion for the the Ender 3 (Pro) with Hero Me Gen6 cooling system and cheap dual gear extruder.

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The use case for this model is very specific!

#### requirements:

- Ender 3 or Ender 3 Pro
- Hero Me Gen 6 upgrade (might work on Gen 5 as well... let me know)
- dual gear extruder (red color, about \$10)
- 30g of filament
- two M5 washers

#### features:

- Can be removed from the carriage while leaving the carriage in place.
- Clamps the cable down.
- Possibility to squeeze the tension lever to insert or remove filemant.
- Tensioning screw still accessible after installation.
- Does not restrict total print volume.
- Works in combination with the 5015 dual radial fan ducts. (most other ducts take less space and should be fine as well)

## what works for me:

- 'no brand' PLA
- 0.2 mm layer height
- 0.6 mm nozzle
- 100% infill
- with supports (Use a file to remove leftovers. The fit is supposed to be quite tight, but a manual squeeze should do the trick. No power tools required!)
- insert the cable before placing the mount on the carriage
- replace spacers of the upper pom wheels with this print and washers
- place the nuts of the upper pom wheels on the inside (there is just enough space to fit a wrench. Use and allen key on the outside.)

## expected results:

- decent benchy in less than 45 minutes (0.4mm layer height, 0.6mm nozzle)
- flow rate of 12 mm<sup>3</sup>/s at 200 °C PLA and full fan without the extruder skipping

## Model files



**direct-extruder-v1.stl**

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