

HEVO - Dexter`s Lab - Direct Drive



DexMoto

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Summary

Hi there :) I just build my HEVO, with some custom parts. But i want to add a simple direct drive on it. This design...

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[hevodirectmount](#)

Hi there :)

I just build my HEVO, with some custom parts.

But i want to add a simple direct drive on it.

This design uses:

X carriage, sensor mount, Extruder E3D V6 Mount - <https://www.thingiverse.com/thing:4389579/files> by nntuan

Extruder arm - <https://www.thingiverse.com/thing:2605108/remixes> by Coolcrawler_

Extruder Mount, fan mount and Duct - <https://www.thingiverse.com/thing:2915456/comments> by semeivan

X carriage - <https://www.thingiverse.com/thing:1752766> by Tech2C

This type of direct drive is for any type of HEVO that uses interchangeable X Carriage.

It is designed specifically for my case - and uses pancake stepper motor 17hs08-1004s, and mostly based on ENDER 3 plastic extruder.

I'm adding some space between the hot end and extruder for a coupler, because in my case i used e3dv6 clone with a coupler and i thought it will be a good idea to put a short PTFE tube as close as possible to the extruder gears.

NOTE!!! If you are using original X carriage by SCOTT_3D, you need to use the original fan duct by semeivan.

I added 2 types of carriage - one with optical end stops and one with normal "click" end stops.

Also added some thread to the extruder arm for a coupler, so i can add ptfe tube to it directly and zip tie all cables to it.

UPDATE****

Rework on extruder arm, it had clearance issues.

Tested with nema 17 HS8401S (bigger motor) working ok.

Print Settings

Printer Brand:

Creality

Printer:

Ender 3 Pro

Rafts:

No

Supports:

Yes

Resolution:

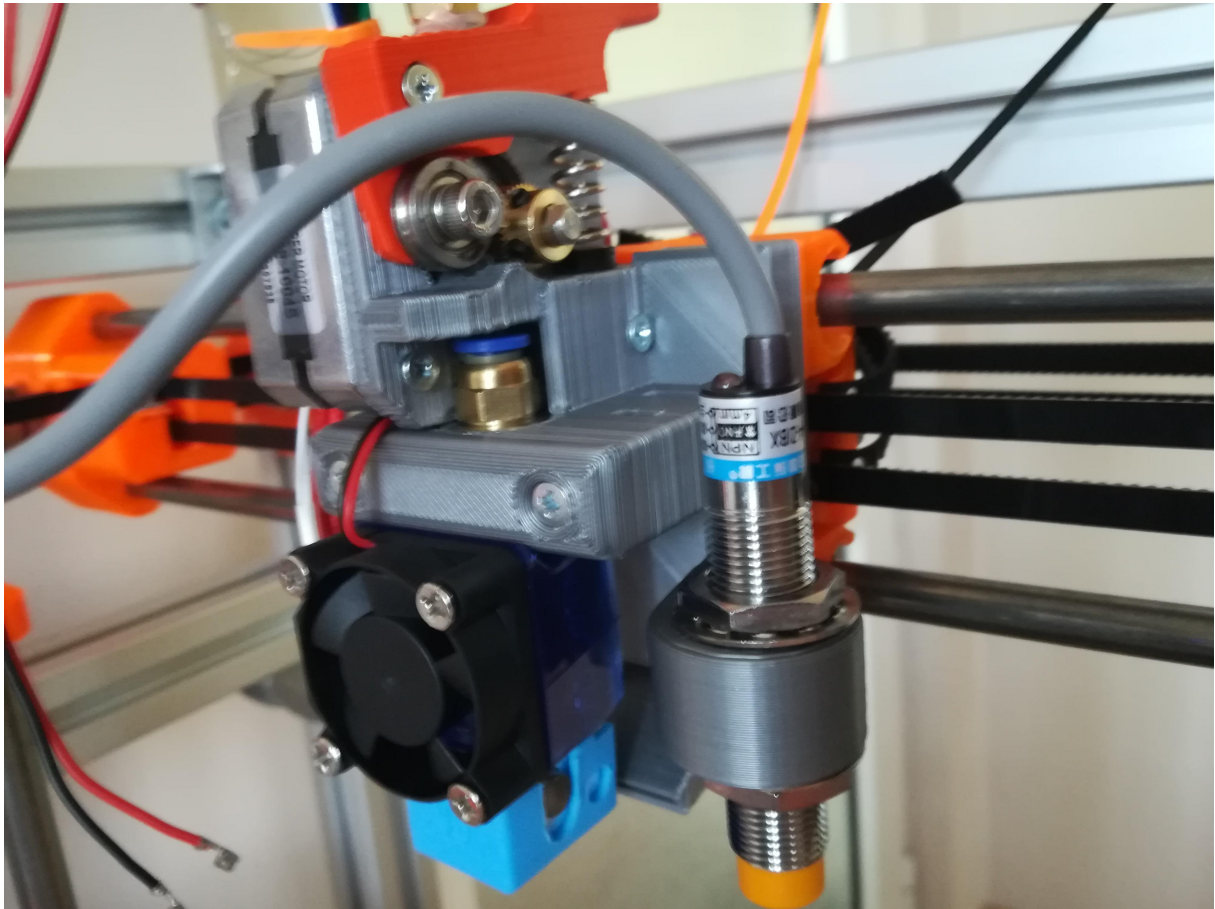
0.28

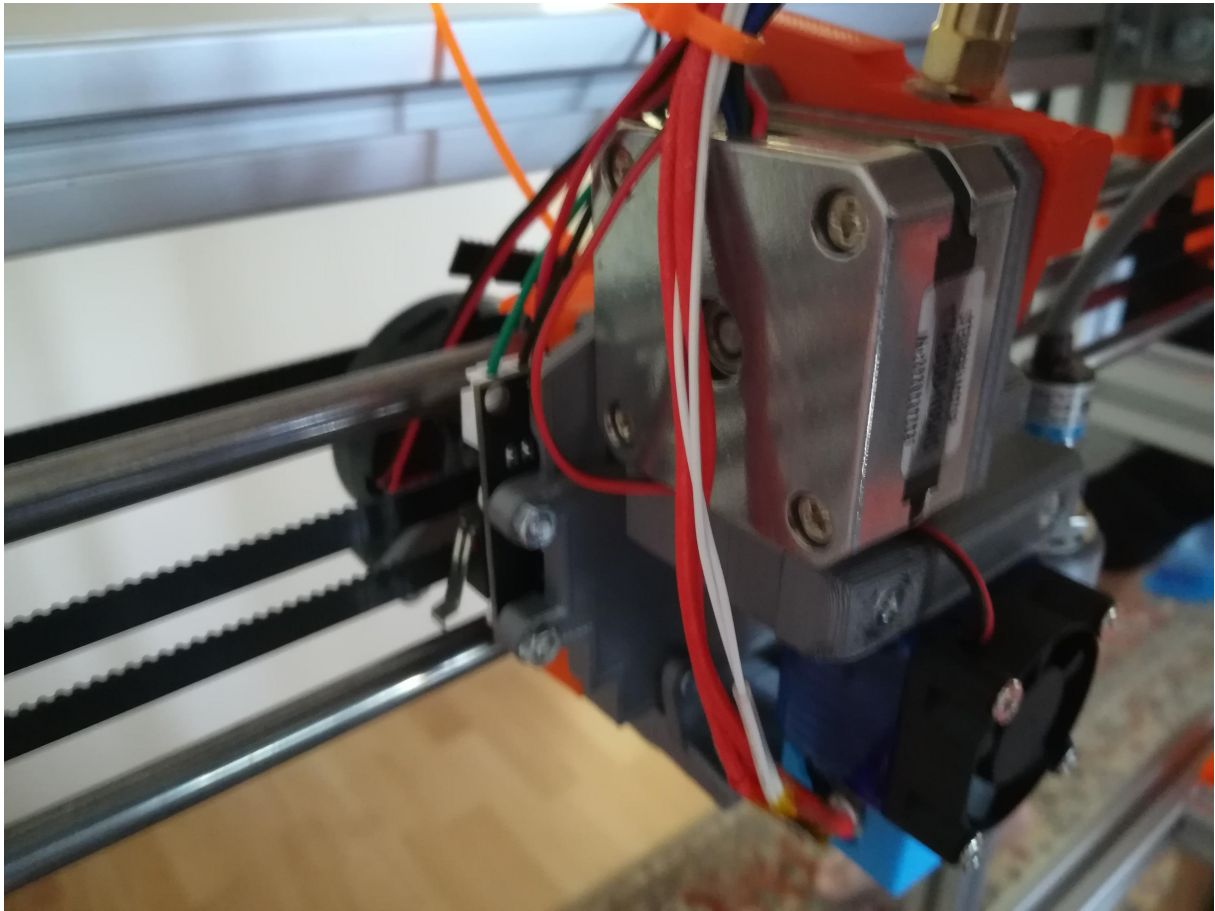
Infill:

70%

Filament: 3d jake PLA silver Post-Printing =====

Still testing, i will add some info after first print



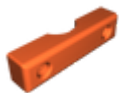


Category: 3D Printer Extruders

Model files



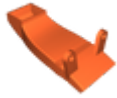
fan_bracket.stl



e3d_clip.stl



extruder_arm_rework_12.stl



fan_tube.stl



e3d_standart_end_stop_dd.stl



probe_18mm.stl



probe_15mm.stl



e3d_optical_end_stop_dd.stl

[Find source .stl files on Thingiverse.com](#)

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