



## HMMH - Hour Meter, Magnetic Heater



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### Summary

Enclosed are models with and without the hour meter. I recommend an hour meter unless your printer already tracks...

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Enclosed are models with and without the hour meter. I recommend an hour meter unless your printer already tracks hours.

Wire it to the fan that is only on when the LCD is on. PLA may be too soft when warm so use PETG, ABS, or print in resin.

Designed for EPAX, Phrozen Transform and original Photon, but also works on other printers with metal enclosures such as the Shuffle. For plastic printers like the Photon-S or Zortrax Inkspire, just stand up in the corner. Also there is a Moai version with magnets on just the bottom - useful for any printer with steel base.

Does not need support to print if you print it on its face.

Heater (100 watt recommended but you can use the 150 and just don't use both black wires)): <https://www.ebay.com/itm/12-24V-PTC-Cars-Fan-Air-Heater-Constant-Temperature-Heating-Element-Heaters/172773930677>  
<https://www.amazon.com/gp/product/B07F3PBX7J>

Hour meter: <https://www.ebay.com/itm/HM008A-LCD-Hour-Meter-DC4-5-to-60V-Voltage-waterproof-Automobile-hour-meter/202266617316> <https://www.amazon.com/gp/product/B01E3AETM2>

Temp controller:

<https://www.ebay.com/itm/Microcomputer-Thermostat-switch-Temperature-Controller-DC-12V-Digital-LED/163270307427> [https://www.amazon.com/gp/product/B07K7KJ788/ref=ppx\\_yo\\_dt\\_b\\_asin\\_title\\_o00\\_\\_o00\\_s00?ie=UTF8&psc=1](https://www.amazon.com/gp/product/B07K7KJ788/ref=ppx_yo_dt_b_asin_title_o00__o00_s00?ie=UTF8&psc=1) <https://www.ebay.com/itm/12V-Digital-LED-Microcomputer-Thermostat-Controller-Switch-Temperature-Sensor-R/163356256545>

Magnets must be 1/4 inch or 6mm diameter and 2mm, 3mm, or 1/8 inch or more thick.

N35 or better round disc Neodymium recommended.

<https://www.ebay.com/itm/50-100-Pcs-Round-Disc-Block-Magnets-Rare-Earth-Neodymium-N52-N48-N42-ALL-Size/312010137420>

Power supply: [https://www.amazon.com/gp/product/B01955JF0Q/ref=ppx\\_yo\\_dt\\_b\\_asin\\_title\\_o05\\_s00](https://www.amazon.com/gp/product/B01955JF0Q/ref=ppx_yo_dt_b_asin_title_o05_s00)

Inspired by open-source magnetic heater by Vinicius Silva. See his model here, which may be better depending on what you want:

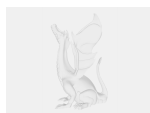
<https://www.thingiverse.com/thing:3442165>

Category: 3D Printer Accessories

## Model files



**mag\_header\_round\_hour\_meter\_v51.stl**

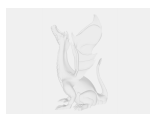


**mag\_heater\_v22.step**



**mag\_heater\_v22.stl**

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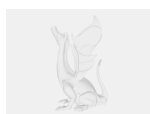
**mag\_header\_moai\_v8.step**

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**mag\_header\_moai\_v6.stl**

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**mag\_heater\_v22.f3d**

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**mag\_header\_rect\_hour\_meter\_v19.stl**

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

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