

## Desktop Helical VAWT

 **Feisty Felix**

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### Summary

This Urban Green Energy HoYi model has been modified to be printable and mountable for display and experimentation.



11.29 hrs



1 pcs



0.20 mm



0.40 mm



PLA



110 g



Prusa  
MK3/S/S+

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Tags: [engineering](#) [greenenergy](#) [vawt](#)

This Urban Green Energy HoYi model has been modified to be printable and mountable for display and experimentation. The model has been equipped with a 8.3mm mounting hole to smoothly accept a wooden 5/16 inch dowel. This model was developed to test power generation and wakefield generation during an undergraduate research project. If mounted correctly, this model will rotate in both wind and water testing environments.

**Print instructions Category: Engineering**

**Printer Brand:** Prusa

**Printer:** i3 MK3

**Rafts:** Yes

**Supports:** Yes

**Resolution:** 0.2mm

**Infill:** 10% - 20%

**Filament:** Hatchbox PLA

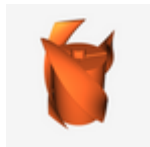
**Notes:**

Center shaft mount accepts a 5/16" wooden dowel. Dowel can be fastened with glue, a screw, or a pin to prevent rotation on the shaft.

## Model files



**desktop\_hoyi.stl**



**desktop-hoyi.3mf**

## Print files



**desktop-hoyi\_02mm\_pla\_mk3.gcode**

⊗ PLA   ⊕ 0.40 mm   ≡ 0.20 mm   ⌚ 11.29 hrs   ⚖ 110 g   🏠 Prusa MK3/S/S+

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

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