
Subject: strandbeest turbine addon
Posted by [er1c](#) on Mon, 03 Jun 2013 10:54:48 GMT
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my design for a vertical axis turbine addon for the strandbeest
it works! and on my first print

and a vid of it in action:
<http://www.youtube.com/watch?v=DbjWQJYrZ5l>

need to do a bit more fine tuning to reduce the wobble on the turbine...

File Attachments

- 1) [01.jpg](#), downloaded 387 times
 - 2) [02.jpg](#), downloaded 388 times
-

Subject: Re: strandbeest turbine addon
Posted by [bmsleight](#) on Wed, 12 Jun 2013 23:18:40 GMT
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Cool.

What is the inertia like ?
Could you leave it to walk across the garden ?

Subject: Re: strandbeest turbine addon
Posted by [er1c](#) on Thu, 13 Jun 2013 01:52:19 GMT
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that's something I'll need to test out

actually I'm not really sure how well it'll work with natural wind.
the original idea behind going for a vertical axis one is so that it'll work with non-directional wind,
but I've only tried it by blowing on one particular side of the turbine.

in terms of the amount of push require to start it walking, inertia isn't that big an issue, as the gears changes 16 rev of the turbine to 1 rev of the strandbeest drive shaft.

Subject: Re: strandbeest turbine addon
Posted by [bartv](#) on Fri, 14 Jun 2013 08:36:25 GMT
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Awesome, I've forwarded this link to the designers! Also, I noticed you added little 'feet' - are these 3d printed as well?

Bart

Subject: Re: strandbeest turbine addon
Posted by [er1c](#) on Sat, 15 Jun 2013 13:34:39 GMT
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thanks bart!
the feet made from a rubber band, cut up and attached to each leg to improve traction. now it walks fine, even on glass
that was the quickest solution I can think of at the time.

the new elasto plastic material might be a suitable material for 3d printed versions of those feets, if it's rubbery enough...
will know soon, have an elasto print order due to arrive sometime next week.

E

Subject: Re: strandbeest turbine addon
Posted by [er1c](#) on Sat, 29 Jun 2013 15:42:01 GMT
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turbine wobble eliminated!
new video:
<http://www.youtube.com/watch?v=cmO1UIEUu-E>

the addon kit is now available from my shop:
<http://www.shapeways.com/model/1182899/vertical-axis-turbine-strandbeest-addon.html>

assembly instructions:

<http://www.shapeways.com/forum/index.php?t=msg&goto=70715>