

Simpler Orbital Shaker for Cell Culture



JoeyMcCord

VIEW IN BROWSER

updated 6. 4. 2023 | published 6. 4. 2023

Summary

A remix of the crickit lab shaker. For easy assembly and cost(\$10/unit) . Accommodates 50 ml, 1.5 ml and 18x13 mm tubes.

[Learning](#) > [Chemistry & Biology](#)

Tags: [chemistry](#) [electronics](#) [lab](#) [shaker](#) [biology](#) [orbital](#) [research](#) [bioreactor](#)

This model is a remix of the crickit lab shaker, that can accommodate tubes better for agitation of growing cells, such as a 50 ml conical tube, 1.5 ml eppendorf tubes, and 18 x 13 mm test tubes. No soldering is required. Will update with build instructions soon. But it's pretty similar to the crickit lab shaker save for the electronics.

The parts required are:

PWM motor controller (4 for \$10) https://www.amazon.com/gp/product/B07GP72BWV/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&psc=1

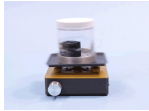
Geared DC motor (6 for \$9) https://www.amazon.com/gp/product/B07DDC3ZBK/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&th=1

Power Cord (2 for \$13) https://www.amazon.com/dp/B077PW5JC3?ref=nb_sb_ss_w_as-reorder-t1_k1_1_14&=&=

Bearings (20 for \$9) https://www.amazon.com/gp/product/B07216D1SZ/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&psc=1

Also some M3 screws.

This remix is based on



Crickit Lab Shaker

Model files

18_13mmtuberack.stl

circulartray.stl

shakerholder_conical.stl

shakerjoey_box_cordhole.stl

shaker-motor-hub-608zz-longer.stl

shakerjoey_top_rim.stl

shaker-idler-608zz-longer.stl

shaker-bearing-base-608zz-longer.stl

shaker-tray.stl

shaker-plate-608zz.stl

License

This work is licensed under a
GNU



General Public License v3.0

- ✗ | Sharing without ATTRIBUTION
- ✓ | Remix Culture allowed
- ✓ | Commercial Use
- ✓ | Meets Open Definition
- i | Share under the same license