

There are three necessary 3D printed parts for the Wavetable, listed below.

- 1) The “bearing base” holds the bearing in place on the base wood and serves as a pivot for the stepper housing.
- 2) The “upper bearing hub” connects the bearing to the bottom of the tank, with a groove for the belt
- 3) The “stepper housing” holds the stepper stepper to the wood base and allows for tensioning.

The “electronics housing” is not strictly required, but helps hold the circuitry in place and prevents accidental water damage to the electronics.

Every part was printed with the following settings:

- 0.4mm nozzle
- 0.2mm to 0.3mm layer height
- 50% Minimum Infill
- Hatchbox PLA
 - 200° C nozzle, 0° C print bed
 - 100% fans at layer 4

	Bearing Base	Upper Bearing Hub	Stepper Housing	Electronics Housing
Orientation	See fig. 1.	See fig. 2.	See fig. 3.	See fig. 4.
Walls	5 wall min.	7 wall min.	5 wall min.	5 wall min.
Top/Bottom	5 layer min.	7 layer min.	5 layer min.	5 layer min.
Speed	35mm/s	25mm/s	35mm/s	35mm/s
Support	None	None	Tree Supports for a 65° overhang from the build plate only.	Support needed for screw tabs.
Build Plate Adhesion	25 Layer Brim Optional	25 Layer Brim Optional	25 Layer Brim Highly Recommended	25 Layer Brim Optional

Bearing Base



Fig. 1: Print in final orientation.

Upper Bearing Hub

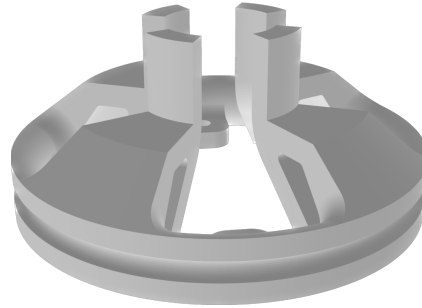


Fig. 2: Print upside-down.

Stepper Housing

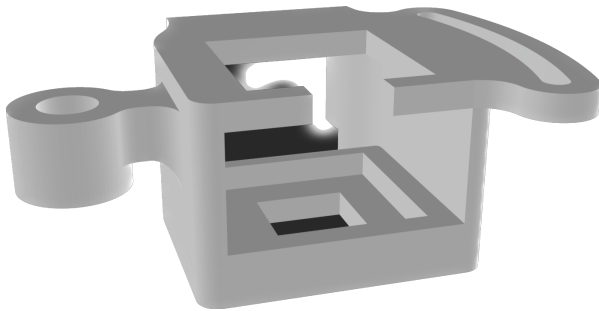


Fig. 3. Upside-down recommended to avoid supports in pin-hole.

Electronics Housing

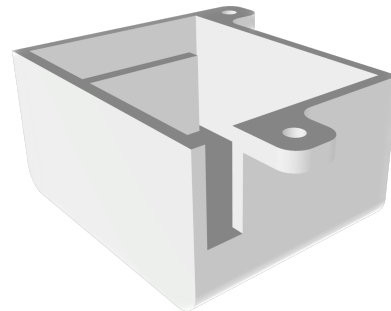


Fig. 4: Print upside-down.