VERTEX BY MINT MOTIVE · GUIDE

# How to use VERTEX

Make a bin, fit a drawer, split a plate for your printer, labels, dividers, holders, print settings and sharing.

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Online, always up to date, with the calculators and the latest changes:
**vertex.mintmotive.com.au/how-to**

## Make a bin

1. Open Create -> Bin, or start from a preset.
2. Set the width and depth in grid units (42 mm each) and the height in 7 mm units.
3. Add columns and rows for compartments. Finger scoops round off the front of each row; label shelves add a ledge at the back.
4. Turn on Lite mode for hollow feet and a thin floor.
5. Add magnet or screw holes under Base if your baseplate has them.
6. Press Download (3MF or STL) and open it in your slicer.

## Fit a drawer

Measure the inside of the drawer. In Baseplate, set Size by to Drawer size and enter the width and depth. We fit as many whole cells as we can.

- Fill the gap to the drawer walls adds a solid border so the plate cannot slide. Turn it off if you would rather use the gap for something else.
- Grid position puts the spare room evenly on both sides, or all on one side.

## Split a plate for your printer

1. In Baseplate, turn on Split to fit my printer.
2. Pick your printer from the list (search by name, e.g. “a1 mini”), or choose Custom size and type your bed size. Add a margin if your bed can't print to the edge.
3. Choose Evenly for tiles as equal as possible (12 cells become 6 + 6), or Largest tiles first.
4. Choose Bowtie clips to lock tiles together (Lite or Solid styles), or Nothing to butt them together. The exact number of clips is shown, and you can add spares.
5. Press ZIP to get every tile and the clip sheet as separate files plus a read-me with the layout, or Download for one 3MF with every part.
6. Print, lay the tiles face down, press a clip into each bowtie socket, and flip the plate into the drawer.

## Magnets and weights

For bins, choose Holes in the feet: magnets, M3 screws or both. Crush ribs hold magnets without glue. For plates, choose the Solid style and turn on Magnet holes and/or Weight pockets. See the guide for magnet polarity.

## Labels

In Bin, open Labels. Put the shelf left, centre, right or full width, at the back or front, and set how far it sticks out. The underside is angled (45° by default), so it prints without supports. Type one label per line (or separate them with |), back row first, left to right. The text is a separate part: in Bambu Studio, give it a second filament colour.

Want labels you can move? Use the Labels tab. Clip-on labels hook over a wall or divider. Set the wall thickness they clip onto and the face angle, then print them on their side.

## Movable dividers

In Movable dividers, choose how many slots to add along each direction. The bin gets slots in its walls, and the download includes the divider plates as separate parts. Print a few extra and rearrange them whenever you like.

## Holders

In Holder, pick what you are storing (AA, AAA, 18650, hex bits, SD cards and more) or choose Custom and type a size. Fill a bin with as many as fit, or ask for an exact number and the bin is sized for you. Staggered rows pack round items tighter.

For the lightest possible holder, set Pockets to Thin walls only. Each pocket gets a thin tube in place of a solid block, which uses a fraction of the plastic. Turn on the Stacking lip to stack holders on top of each other.

## Boards and soldering

Holder includes solder wick, 5 and 10 ml flux syringes, flux pens, solder tubes and T12 tips (try the Flux + wick preset), and comb slots for jumper wires.

For Arduinos, ESP32s, Raspberry Pis and breadboards, choose how they sit. Standing on edge gives slots that hold many boards side by side. Laid flat gives a tray for a single board. Turn on the stacking lip and the trays stack on each other. Boards vary, so measure yours and adjust if needed.

## Share what you make

There are three ways to share, and you can use all of them for the same design.

### On VERTEX

1. Save your design, or press Share a model in your account menu to upload your own STL, 3MF or STEP files.
2. Add photos, a description and a category. Pick the licence from the list, each shown with its badges and what it allows: generator designs carry CC BY-NC-SA 4.0 (free, with credit, not for sale); your own models keep the licence you choose.
3. Publish. It shows up on your profile and in the community, your followers hear about it, and you can post an update about it too.

### On MakerWorld

Every design has a link with its settings built in. In the generator, press MakerWorld text and paste the result into your model's description. Anyone who opens the link lands in the generator with your design loaded, ready to change and print their own version.

### As a link

Press Share in the generator to copy a link to exactly what you're looking at. Saved designs can be shared too: turn on Shared in My designs and copy the link.

Printed one? Post a Test Print on its page with a photo and your printer and filament: it helps the next person and the maker.

## Print settings

- 0.4 mm nozzle, 0.2 mm layers, 2–3 walls.
- 15% infill is plenty; lite parts are mostly walls anyway.
- No supports needed for any model on this site.
- PLA or PETG both work. Clips grip best in PETG.

Printed from VERTEX by Mint Motive. The online guide has the calculators, pictures and the latest changes.