



Gridfinity Carousel



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Summary

Carousel style holder for Gridfinity bins with a French Cleat mount.

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Check out the new [motorized version](#)!

I made this carousel to organize the myriad of small parts and fasteners I've accumulated on my workbench. It can either be wall mounted via a French Cleat or set on a workbench. It's compatible with 1xN gridfinity modules up to 4 units tall. You can leave off some carriages to fit taller modules if needed, just mind that the center of gravity of the carriage needs to stay below the carriage pivot axis.

The two wheels are connected together by 3x wheel_brace which are fastened together like hinges using filament as the hinge pin. If you have trouble fitting 1.75mm filament through the holes then your printer needs to be tuned (x, y, z, or e steps, flow rate, etc). This is a common problem, so I've included a wheel brace with oversized holes to use.

The model features two leaf springs that detent into the main wheels to hold the carousel in position. These can be left off for smoother rotating, but the heaviest side will always fall to the bottom if you do.

The two cleats can be connected together by two wooden dowel rods cut to 288mm length if desired. I've found if hanging off the French Cleat these aren't necessary, but if using on a benchtop or moved around a lot the dowels will help stabilize the structure.

Additional materials needed:

- 608ZZ bearings (skateboard wheel bearings), qty 2
- 683ZZ bearings, qty 20
- M8-20, qty 2
- M3-8, qty 30
- 1/2" x 288mm dowel rod, qty 2 (optional)

All parts will fit on an Ender3 or equivalent print bed. 10% infill and no support needed throughout.

All fasteners will thread directly into the plastic, no threaded inserts or post processing required.

Updates:

- Jan 6, 2024 - Added models for 1x3, 1x4, and 1x5 bins.
- Jan 8, 2024 - Updated description to say 4u tall bins (previous typo).
- Jan 9, 2024 - Increased hole size on wheel brace for filament to slide through.
- Jan 28, 2024 - Increased hole size on wheel brace (again), added assembly instructions.
- Feb 17, 2024 - Included wheel brace with oversized hinge pin hole.

Model files



STEP

2 files

cleat.step

cleat_mir.step



wheel.stl

📄 qty 2



wheel-brace.stl



carriage.stl

📄 qty 10



cleat_mir.stl

📄 qty 1



cleat.stl

📄 qty 1



leaf-spring.stl

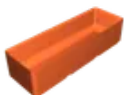
📄 qty 2



gridfinity_bin_1ux1ux4u.stl



gridfinity_bin_1ux2ux4u.stl



gridfinity_bin_1ux3ux4u.stl



gridfinity_bin_1ux4ux4u.stl



gridfinity_bin_1ux5ux4u.stl



wheel-brace-oversized-hinge-hole.stl

Other files

gridfinity-caurosel-assembly-instructions.pdf

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