



Modern toothbrush stand



Orlando Marin

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Summary

A simple, elegant, swooping shape to hold two or four toothbrushes. Available in two sizes.

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[modern](#) [simple](#) [family](#) [curve](#)

If you want an elegant, yet simple, way to keep your toothbrush from lying on the counter then this modern, curvy design fits the bill. It's entirely free-standing and prints in one piece, though you'll likely need supports for the holes, but not much.

PRINT ON ITS SIDE TO REDUCE NEEDED SUPPORTS

Using manual supports, and with the stand on its side, I only had to paint supports on the (now) upper part of the holes. A sliver of support will do, and was only necessary on the lowest part of the overhang. I found **slim tree supports** in Orca Slicer to result in the best hole quality. I've gotten the best hole quality by using the adaptive layer height feature, printing the model at .16mm, and reducing the layer height of each hole down to .12mm.

Recommended print settings (pictured print):

- Layer height: 0.16mm
- Wall infill order: outer/inner/infill
- Walls: 4
- Infill: Doesn't really matter
- Outer walls: 100mm/s
- Inner walls: 250mm/s
- Support: Tree Slim (changes the below settings)
 - Top Z distance: 0
 - Top interface layers: 0
 - Tree walls: 2
- Brim: optional

This toothbrush stand design comes in two sizes:

- Fratelli - Four toothbrush stand (154mm wide)
- Duo - Two toothbrush stand (larger spacing between toothbrushes than Fratelli, and 107mm wide)

Features:

- Rounded bottom with guides on the inside of the stand to keep toothbrushes from falling over in the stand, even if not dropped in straight
- Doesn't touch the toothbrush head
- Two sizes available for different living arrangements
- Curves make the stand easy to clean

UPDATE (2023-12-23):

- The holes are bigger and sit higher to accommodate larger toothbrushes like Oral-B
- Removed hole chamfers for easier printing
- Where the bottom of the toothbrushes sit is now wider
- The footing isn't as long now, allowing for less material to be used

Feel free to remix, but attribution is required. These models may not be sold, and modifications must be made freely available under the same license. Feel free to recommend modifications or ask questions, and I'd love to see your makes!

The step files are available for download, or [click here to see them directly in OnShape](#).

Model files



Old

4 files



duo-v1-old.step



fratelli-v1-old.step



duo-v1-old.stl



fratelli-v1-old.stl



STEP files

2 files



duo-v2.step



fratelli-v2.step



duo-v2.stl



fratelli-v2.stl

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