



Plant Pot Stand & Jar



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[VIEW IN BROWSER](#)

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Summary

Stand and drainage jar to replace a flowerpot dish.



40.17 hrs



7 pcs



0.30 mm
0.20 mm



0.40 mm



PLA
Flex



932 g



Prusa
MK3/S/S+

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Tags: [stand](#) [plant](#) [planter](#) [plantpot](#) [gardening](#)

Have you ever thought about the hassle of dealing with the drainage of water that accumulates in the flower pot dishes of indoor houseplants?

With this flowerpot stand and drainage jar, you don't have to lift heavy plants and remove the dish every time for drainage.

When water accumulates in the jar, simply dump it out.

There is a hole in the center of the stand, so if you place the flowerpot on top without the dish, water will collect in the jar below it every time you raise the water. The stand is simple in design and very sturdy, so it can be used as just a flowerpot stand for those who don't find drainage a hassle.

Leg length is 150mm. I have also made a shorter version for prototyping, but I will release this one upon request.

Compatibility

Up to 22 cm in diameter at the bottom of the flowerpot.
If it is as small as about 13 cm, there is no need to print top_cover.

Printing Configuration

Material: PLA (but "tube" is TPU)
Layer height: 0.3mm
Infill: 15~20%

Parts to print and number of parts

leg, top_cover, jar_guide x3 of each
top x1
jar x1 (transparent color is recommended to see the water level. If you want to match the atmosphere, you can use the same color as the other parts. or... bicolor is also good!)
tube x1 as needed (required FLEX material)

Assembling

Very easy.
Insert 3 legs into the top, place 3 top_covers on the top. top_covers are loose, but no problem.
Please refer to the images for the names of the parts.

IMPORTANT

Depending on the angle of the bottom of the flowerpot and the placement of the holes, water may not flow into the center hole and may overflow. Be sure to check the drainage holes in the bottom of the flowerpot, and when using the pot for the first time, try watering in an area where it is safe for water to overflow around it.

In my AND PLANTS Ecopots, the holes are centrally located, but the bottom of the flowerpot has a downward slope from the center hole to the perimeter, so that water from the holes in the flowerpot flows to the perimeter and not to the center hole in the stand, causing water to overflow in the perimeter direction. I therefore made a tube for drainage and attached it to the bottom of the flowerpot. I have attached the .f3d file, so if you need it, you can make the tube to fit the size of the hole in the bottom of your flowerpot and print it out in FLEX material.

The height of the tube should be as long as possible, because if it is too

short it will flow in a circumferential direction. However, if it is too long, it will interfere with inserting and removing the jar, so find just the right length.

For my AND PLANTS, 4 cm would have been just fine, but 3 cm would have spilled drainage.

Model files

 **stl** 6 files

 **top.stl**

 **jar_2mm_150mm.stl**

 **leg_150mm.stl**

 **top_cover_v2.stl**

 **jar_guide_30deg.stl**

 **pot_hole_tube.stl**



m3f

6 files



top.3mf



jar_2mm_150mm.3mf



leg_150mm.3mf



jar_guide_30deg.3mf



top_cover_v2.3mf



pot_hole_tube.3mf



plant_pot_hole_tube.f3d

Print files



top_03mm_pla_mk3s_8h46m.gcode

⊗ PLA ⊕ 0.40 mm ≡ 0.30 mm ⌚ 8.77 hrs ⚖ 194 g 🖨 Prusa MK3/S/S+



leg_150mm_03mm_x3_pla_mk3s_11h25m.gcode

🌀 PLA 📏 0.40 mm ⚖️ 0.30 mm ⌚ 11.41 hrs 📊 254 g 🖨️ Prusa MK3/S/S+



jar_2mm_150mm_03mm_pla_mk3s_7h22m.gcode

🌀 PLA 📏 0.40 mm ⚖️ 0.30 mm ⌚ 7.37 hrs 📊 189 g 🖨️ Prusa MK3/S/S+



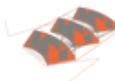
top_cover_v2_03mm_pla_mk3s_2h54m.gcode

🌀 PLA 📏 0.40 mm ⚖️ 0.30 mm ⌚ 2.89 hrs 📊 72 g 🖨️ Prusa MK3/S/S+



top_cover_v2_x2_03mm_pla_mk3s_5h47m.gcode

🌀 PLA 📏 0.40 mm ⚖️ 0.30 mm ⌚ 5.78 hrs 📊 144 g 🖨️ Prusa MK3/S/S+



jar_guide_30deg_x3_03mm_pla_mk3s_3h21m.gcode

🌀 PLA 📏 0.40 mm ⚖️ 0.30 mm ⌚ 3.35 hrs 📊 75 g 🖨️ Prusa MK3/S/S+



pot_hole_tube_02mm_flex_mk3s_36m.gcode

🌀 Flex 📏 0.40 mm ⚖️ 0.20 mm ⌚ 0.60 hrs 📊 4 g 🖨️ Prusa MK3/S/S+

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