

Modular Hydroponic Tower

Assembly Series: Part 2 — The Planter

Welcome to the assembly guide for the Planter Module of the Turing Hydro Sectional Modular Hydroponic Tower. This primary growing unit consists of interlocking sections designed to house your plants and integrate with the water distribution system, connecting securely to the base or subsequent modules.

Required Components

Before beginning, ensure you have the following parts for the planter module (3d print them with PETG if using the digital product):

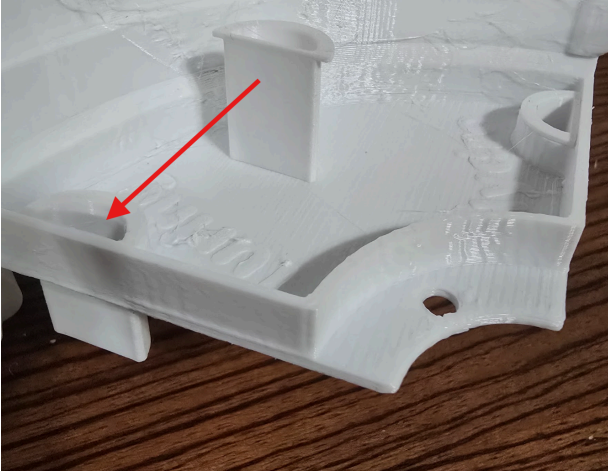
Component	Quantity	Description
Planter Sections (planter.stl)	4	Sections that snap together to form the circular planter module.
3-inch net pods (can purchase at amazon or alibaba)	4	Pods for growing the plants.
Water guide (water guide.stl)	8	Part that guides the water directly on to the net pods of the plants you are growing.
Module holder (module holder.stl)	1	Part that mechanically locks the planter sections in place.
Module nut (module nut.stl)	1	Complementary part to mechanically lock the planter sections in place.
Tube (optional – tube.stl)	1	An optional part to serve for the water to reach the top of the assembled tower, Vinyl Tubing of 1/2-Inch ID x 5/8-Inch OD can be used instead for the full tower.
Tube first (optional – tube first.stl)	1	Same as above but with the added functionality to connect to the vinyl tubing connecting the pump to this part, single part per tower.
4 to 5mm vinyl tube o-ring	1	Vinyl tube cut at 4 to 5mm length to serve as o-ring for sealing the module water delivery interconnections.

Step-by-Step Assembly



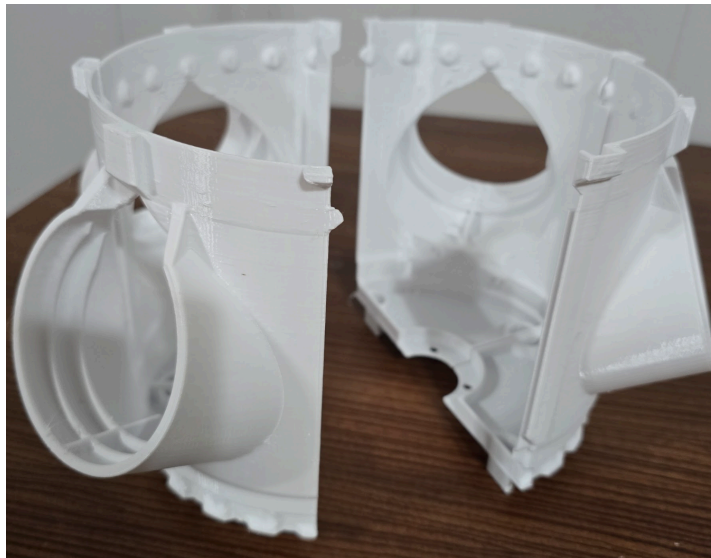
1. Insert the water guide onto the planter sections

Insert the water guide parts onto the slots on the planter sections, 2 guides per section, 8 per module.



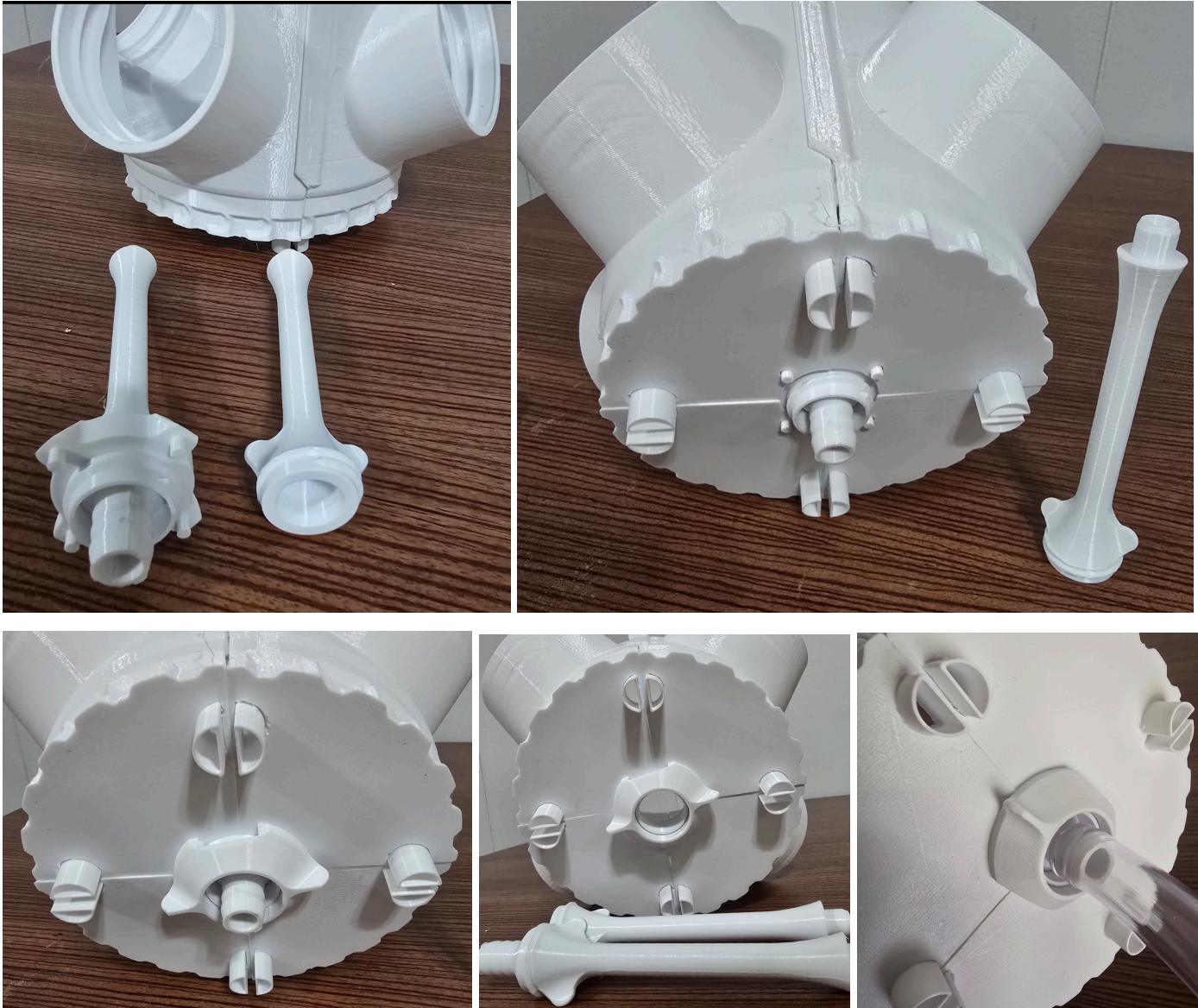
2. Put together the planter ring

Put together the planter ring 2 sections at the time, then form the ring with the 4 sections.



3. Lock the Module

Lock the 4 sections of the planter module with the module holder and the module nut, if using the tube, for water delivery, twist it onto the module holder for the process to be easier (remember to use the “tube first” part for the first module connecting to the base), align the pegs of the module holder with the holes of the sections to hold them in place, and twist the module nut onto the module holder to have a complete module.



4. Place the O-ring onto the tube

If using the tubes as a water delivery method, place the vinyl O-rings on the top of them to serve as seal between each module connection, ignore this step if using the vinyl tubing as delivery method.



Finished Module assembly

