

Modular Hydroponic Tower

Assembly Series: Part 1 — The Base

Welcome to the assembly guide for the Base of the Turing Hydro Sectional Modular Hydroponic Tower. This primary foundation unit consists of interlocking sections designed to house your structure and integrate with the water distribution system, connecting securely to the reservoir. The following instructions will guide you through assembling the base ring, securing it to your reservoir lid, and preparing the unit for stacking your subsequent planter modules.

Required Components

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

Component	Quantity	Description
Base Sections (base.stl)	4	Sections that snap together to form the circular load bearing base.
Base holder (base holder.stl)	1	Part that clamps the base assembly on to the flat lid of the reservoir by twist locking it
Water liner (base water liner.stl)	1	Ring that keeps any spillage from the upper modules inside the base minimizing the risk of water sipping out of the base.
Water Reservoir with flat lid	1	A generic water-holding container (e.g., a bucket).
Turing Hydro Smart Module (Optional)	1	Optional product, the sensors are inserted into the hole mentioned in the final assembly reference.

Step-by-Step Assembly

1. Make a 150mm hole (~5 29/32 inches)

Use a hole saw to make a 150 mm hole in the middle of the flat lid of the reservoir (I recommend [this product](#)).

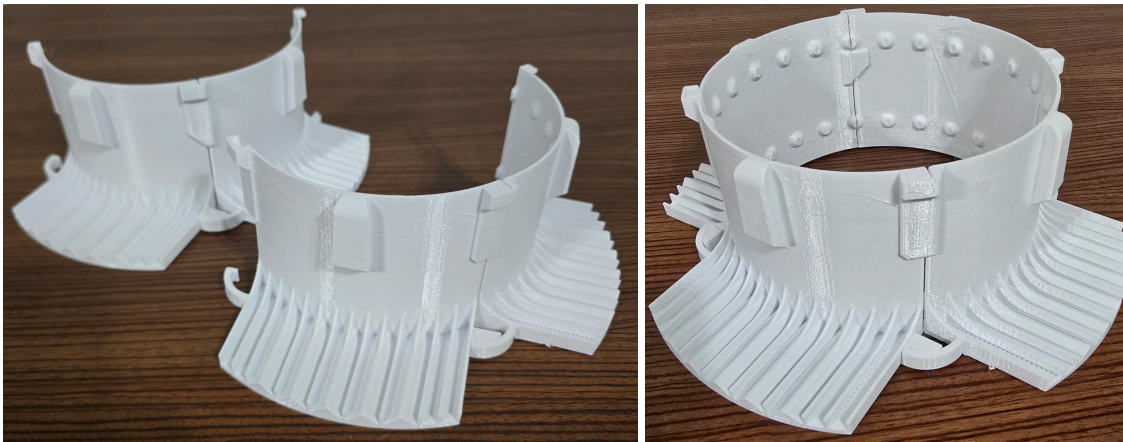
2. Prepare the lid with the base holder

Place the base holder in the hole you just made.



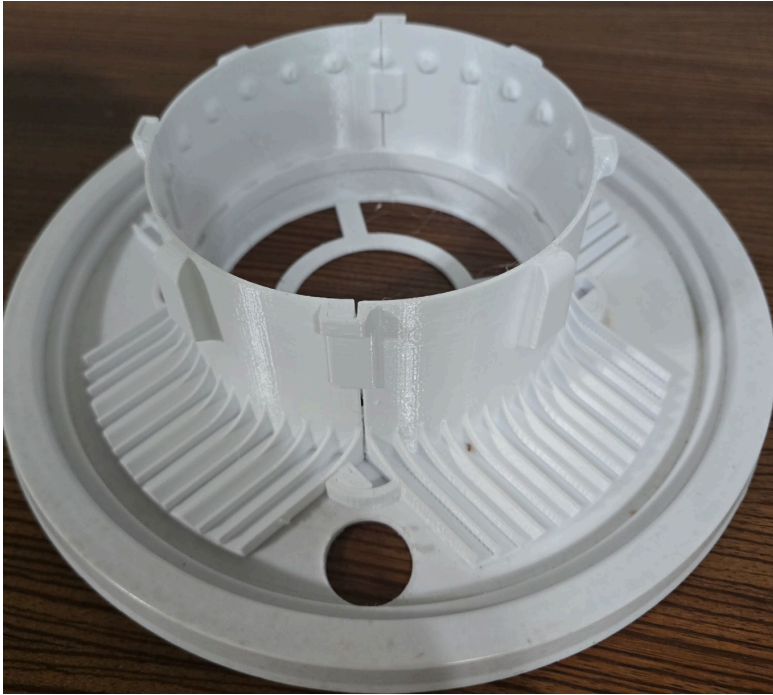
3. Assemble the Base Ring

Begin by interlocking the individual base wedge sections to form a complete ring. These sections utilize a twist mechanism at the top corners and a snap feature on the bottom to secure the sections together into a unified structural unit.



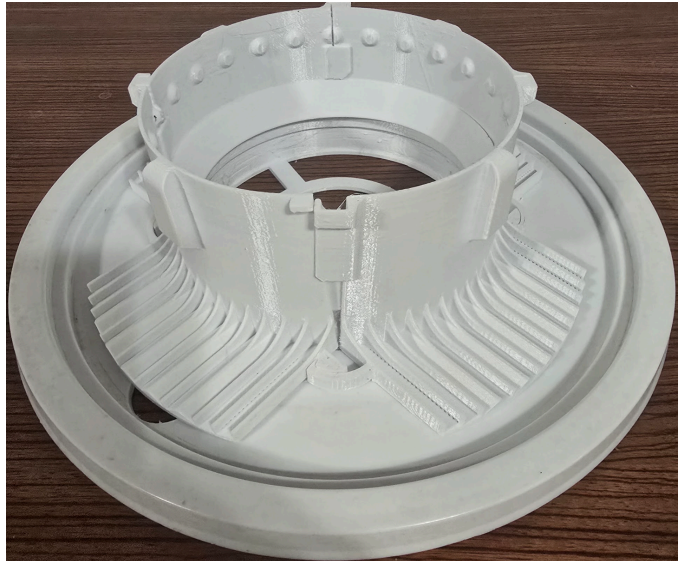
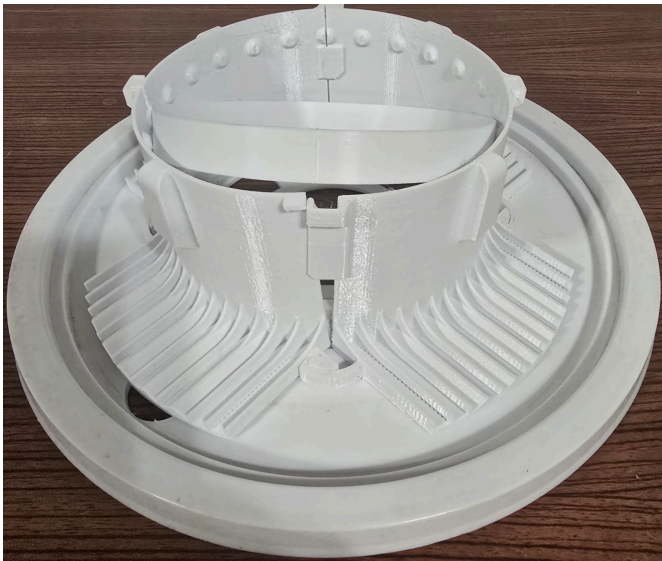
4. Align with the Reservoir Lid

Place the assembled ring module onto the base holder and twist to lock both parts in place sandwiching the lid between both parts. The parts are specifically designed to ensure stable attachment and provide the necessary load-bearing capacity for the vertical planter modules that will be stacked above it.

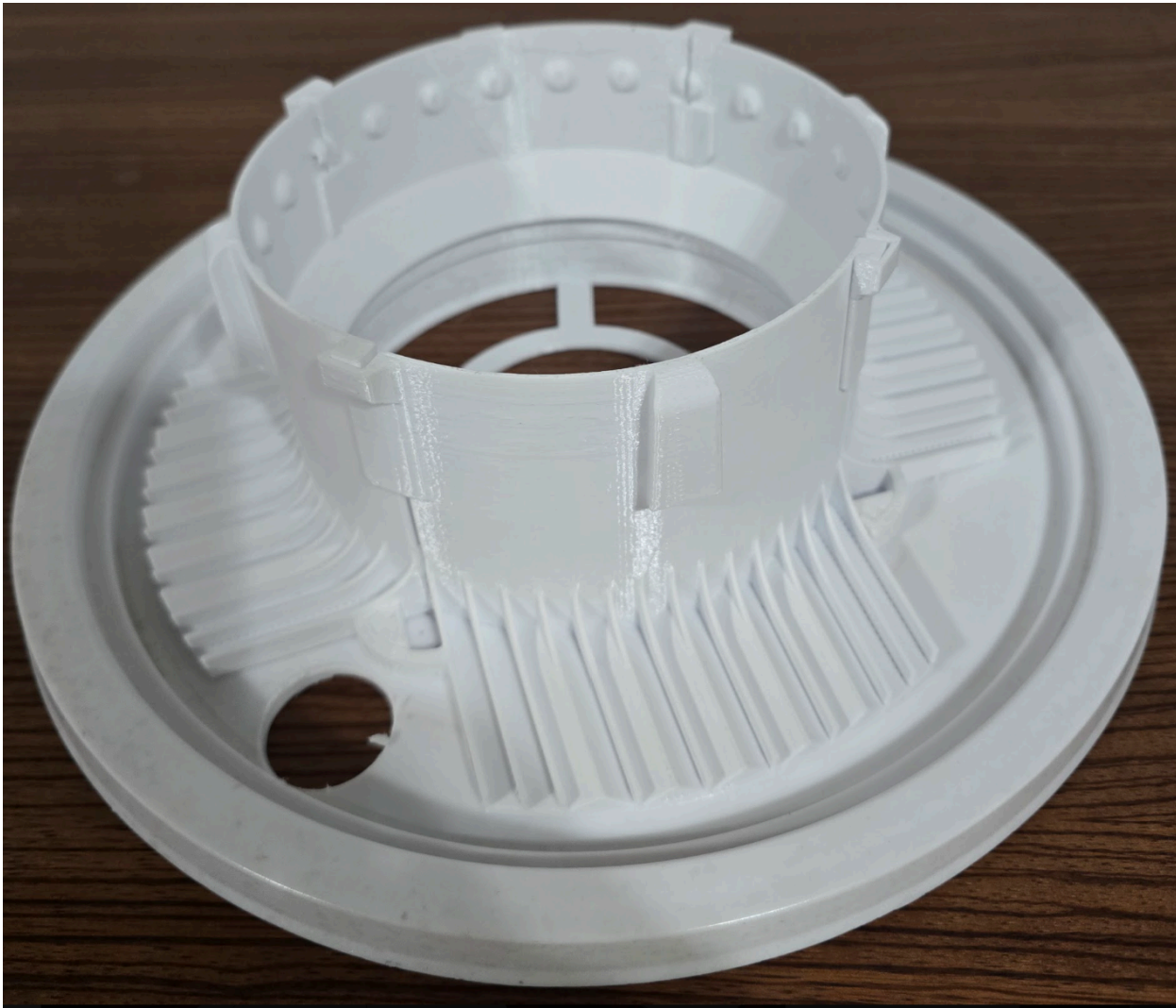


5. Place the water liner

Place the water liner inside the base ring, a recommendation would be to partially disconnect the wedges on the top corners of 2 sections.



Finished Module assembly



Something important to note is the lid has a hole for the [Turing Hydro Smart Module](#) sensors, it is made with a 1 inch hole saw or similar wood working tool.