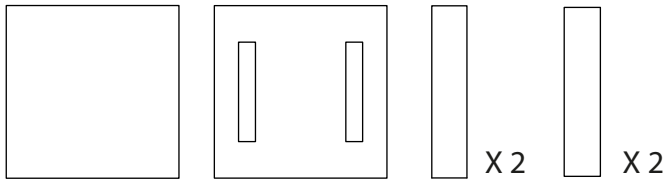
1. Create the scale support by bolting the acrylic platform (5mm) to the two aluminium extrusion (360mm).
2. Remove the metal weighing pan and insert the 3D printed nest holder. This allows for direct attachment of the nest to the scale ensuring its stability.
3. Using 4 acrylic spacers, bolt the scale to the side of the arena.
4. Using chloroform, bond the 2 white acrylic bottom pieces, one of which will slot into the 3D printed nest holders.
5. Attach the red acrylic sides to the nest bottom.
6. Attach front (red) and back (white) to the nest bottom.
7. The base of the nest will sit directly onto the scale by slotting onto the nest holders. This area will be filled with nesting material and enrichment during the experiments.
8. Attach the back acrylic wall (white) to the wall sides (red). One of the side has an opening for the water bottle spout.
9. Attach the nest outer walls (red), this will be continuos with the arena outer walls.
10. Position the best base and walls onto the arena, above the scale. The base of the nest will sit directly on the scale held by the 3d printed holders while the wall sit and connect to the arena walls.
11. Assemble a T shape aluminium extrusions support for the water bottle.
12. Connect the 3D printed water holder bottle to the support.
13. Bolt the water bottle on the side of the nest using angle brackets. Adjust its inclination to fit the spout into the side wall opening.|

Note: To ensure accurate weighing of the animal, no part of the base structure attached to the scale should be connected to or touching any part of the arena or the nest structure.

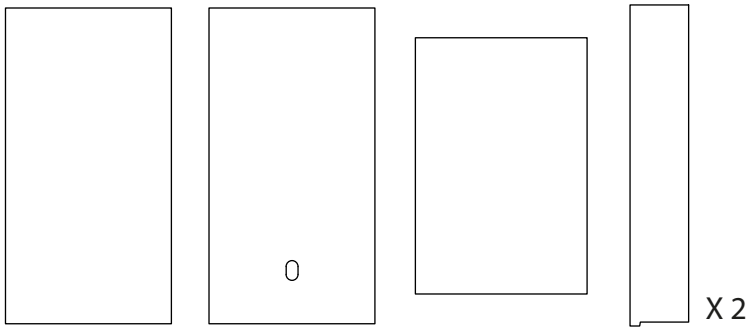
Red: red gloss transparent acrylic
White: white matte acrylic

BASE



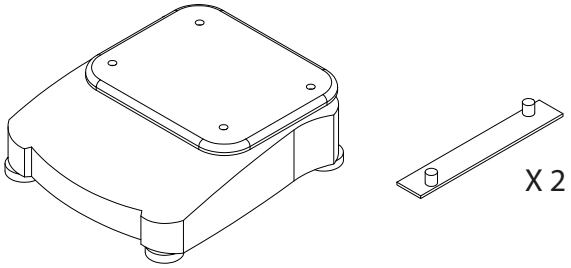
BOTTOM BOTTOM FRONT/BACK SIDES

WALLS



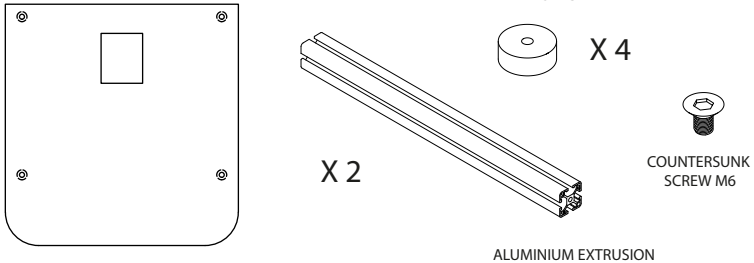
SIDE WATER BOTTLE SIDE BACK OUTER WALL

SCALE



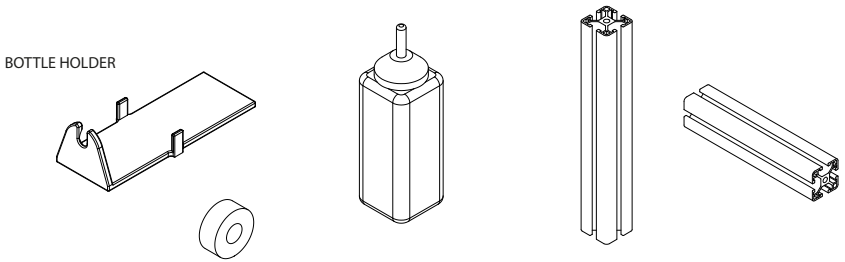
SCALE NEST HOLDERS

SCALE SUPPORT



ACRYLIC PLATFORM ALUMINIUM EXTRUSION

BOTTLE HOLDER



SPACER WATER BOTTLE ALUMINIUM EXTRUSION

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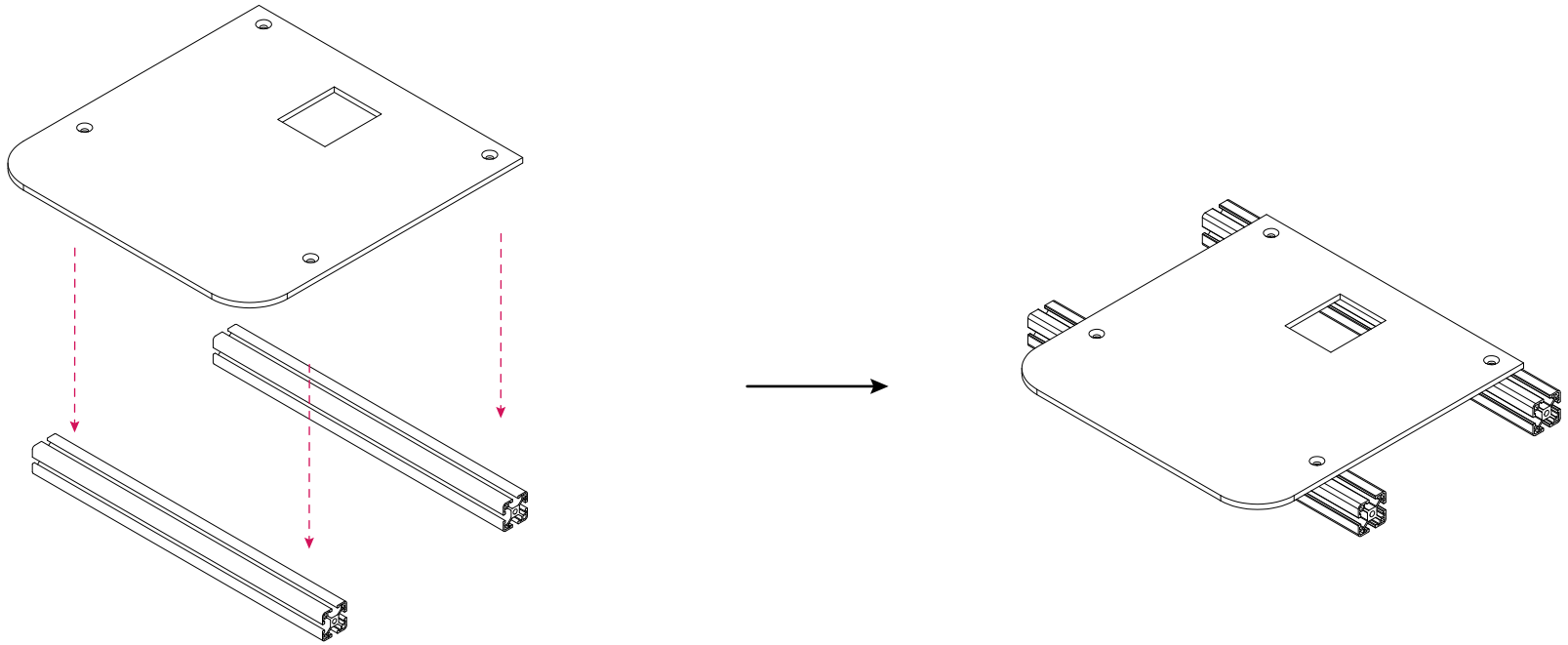

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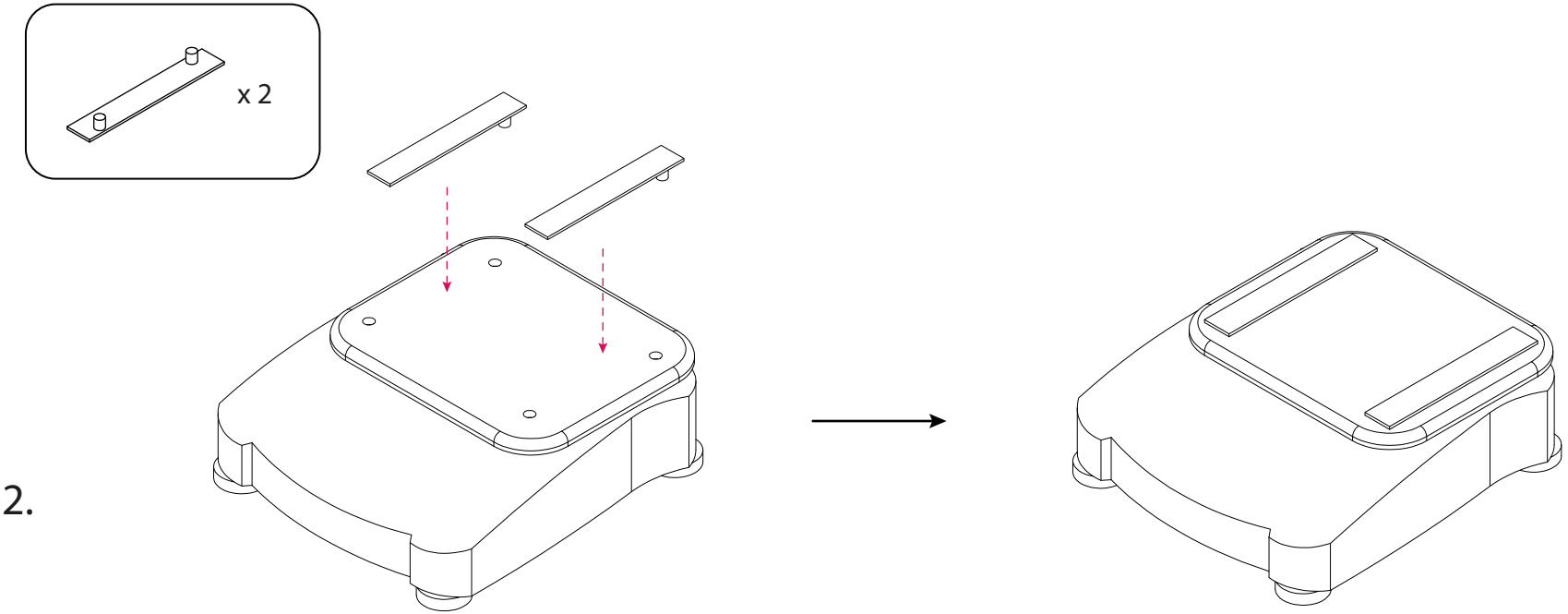

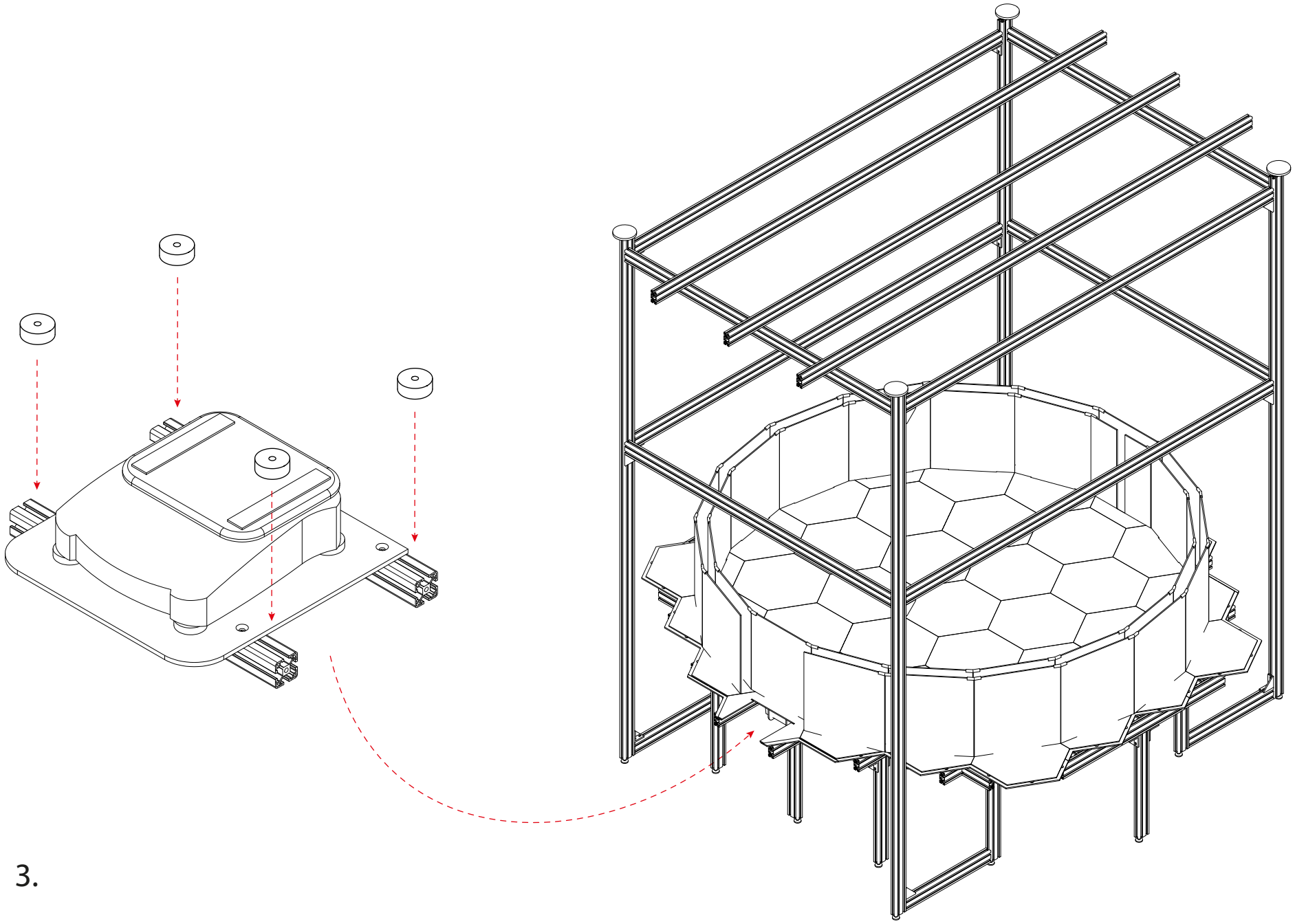

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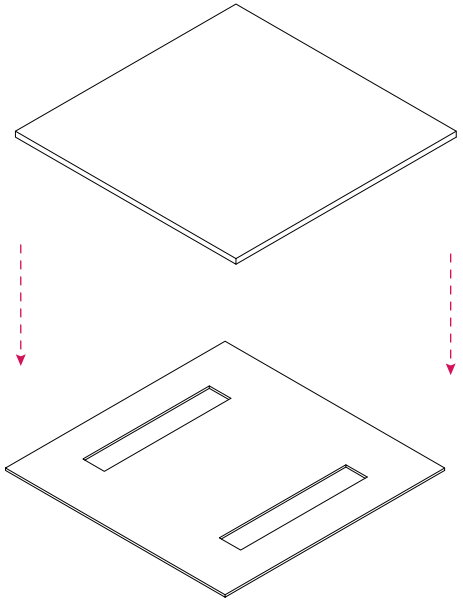

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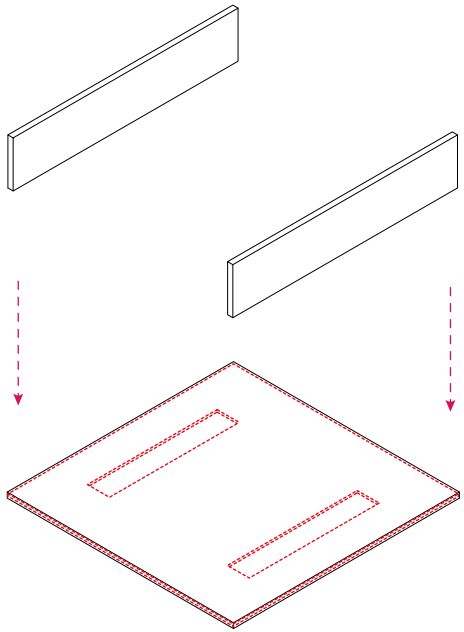

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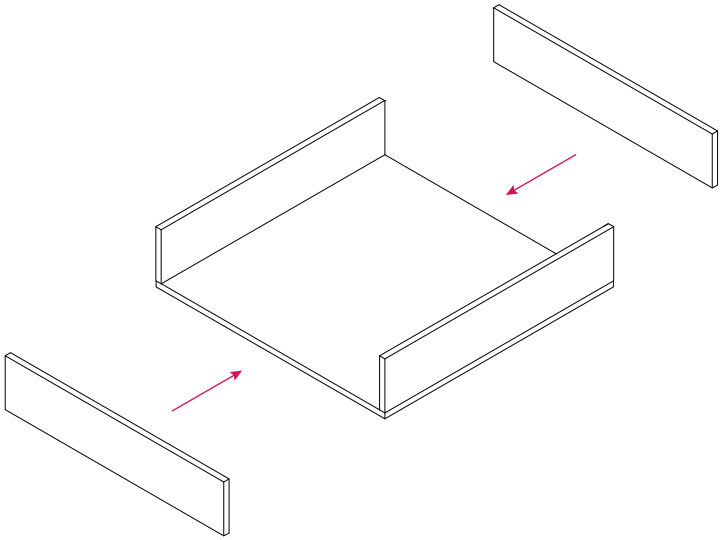

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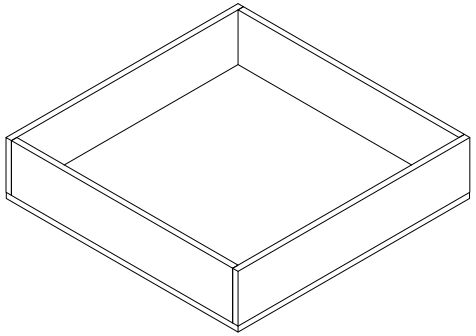

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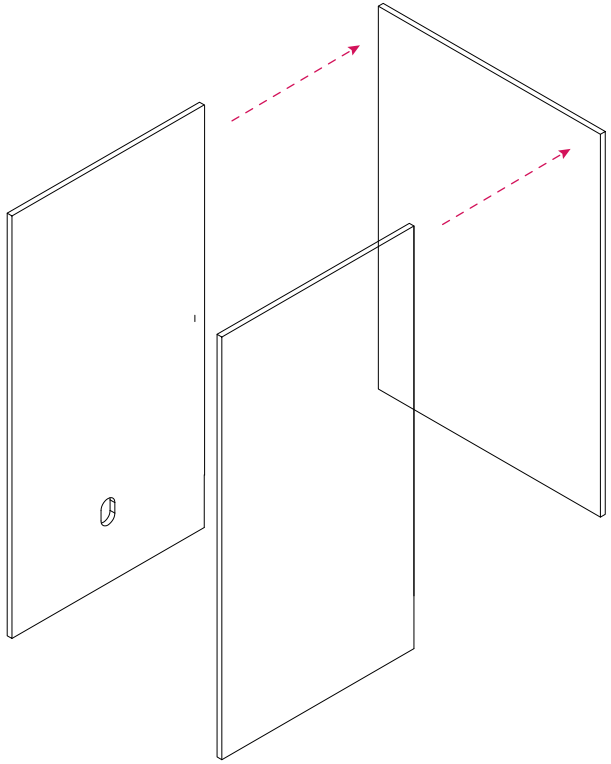

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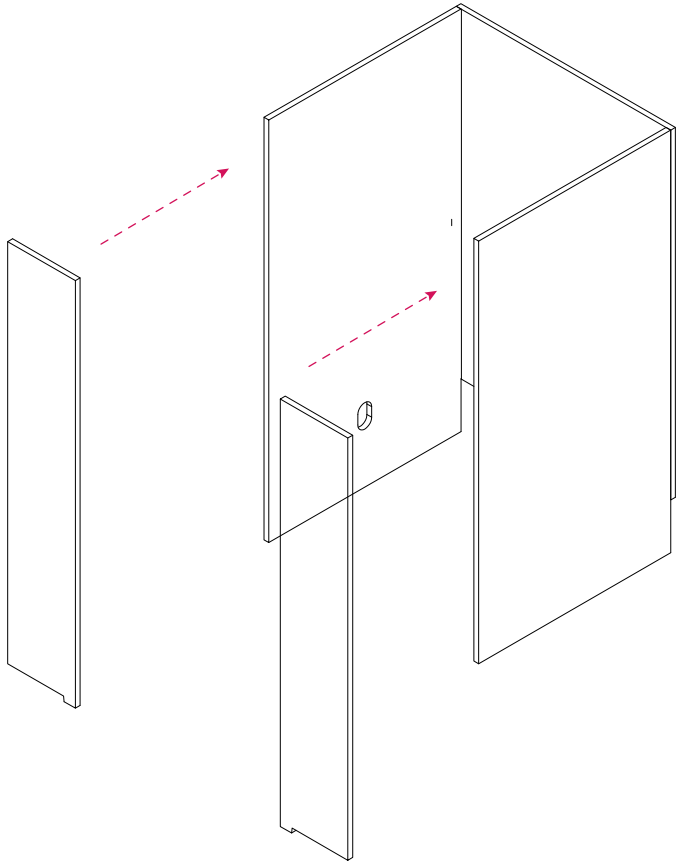

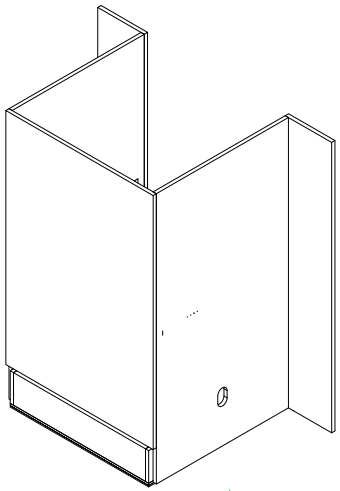

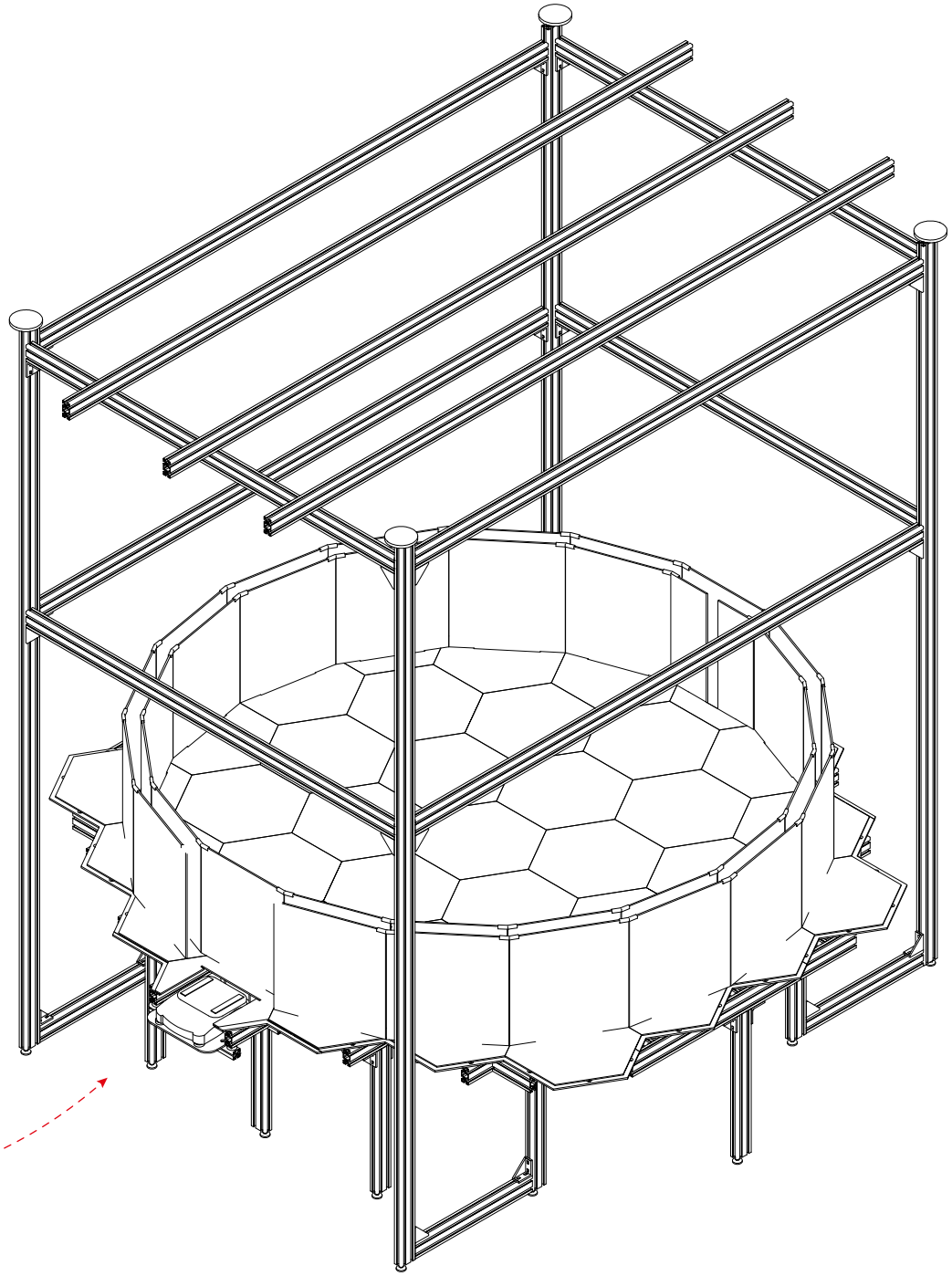

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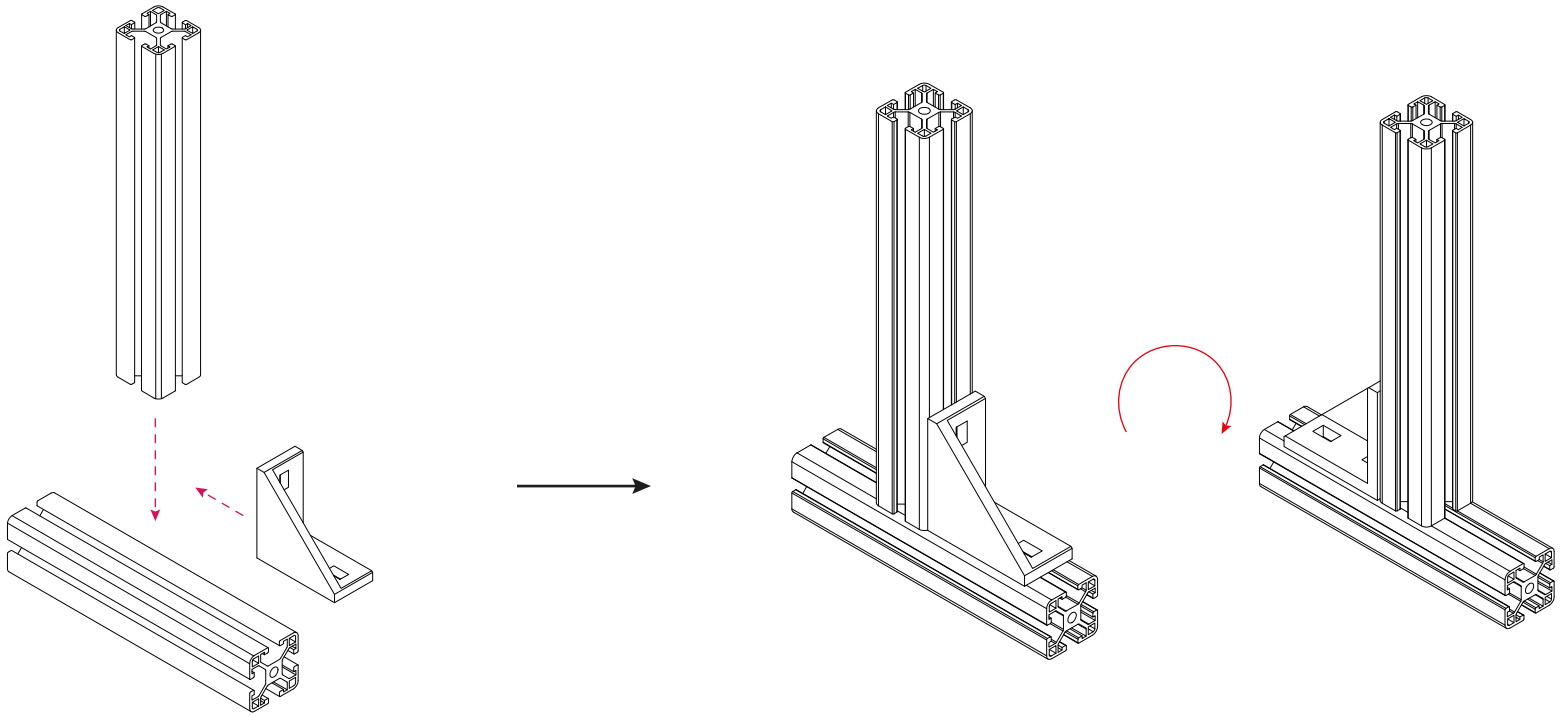
11.



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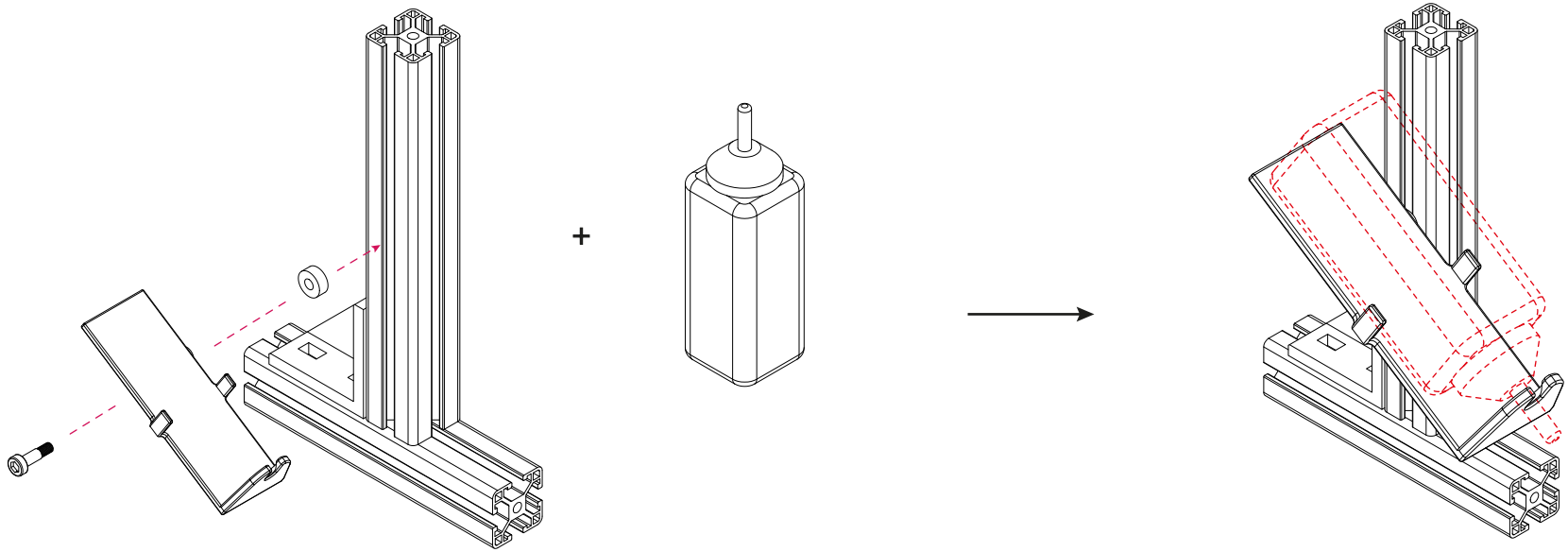

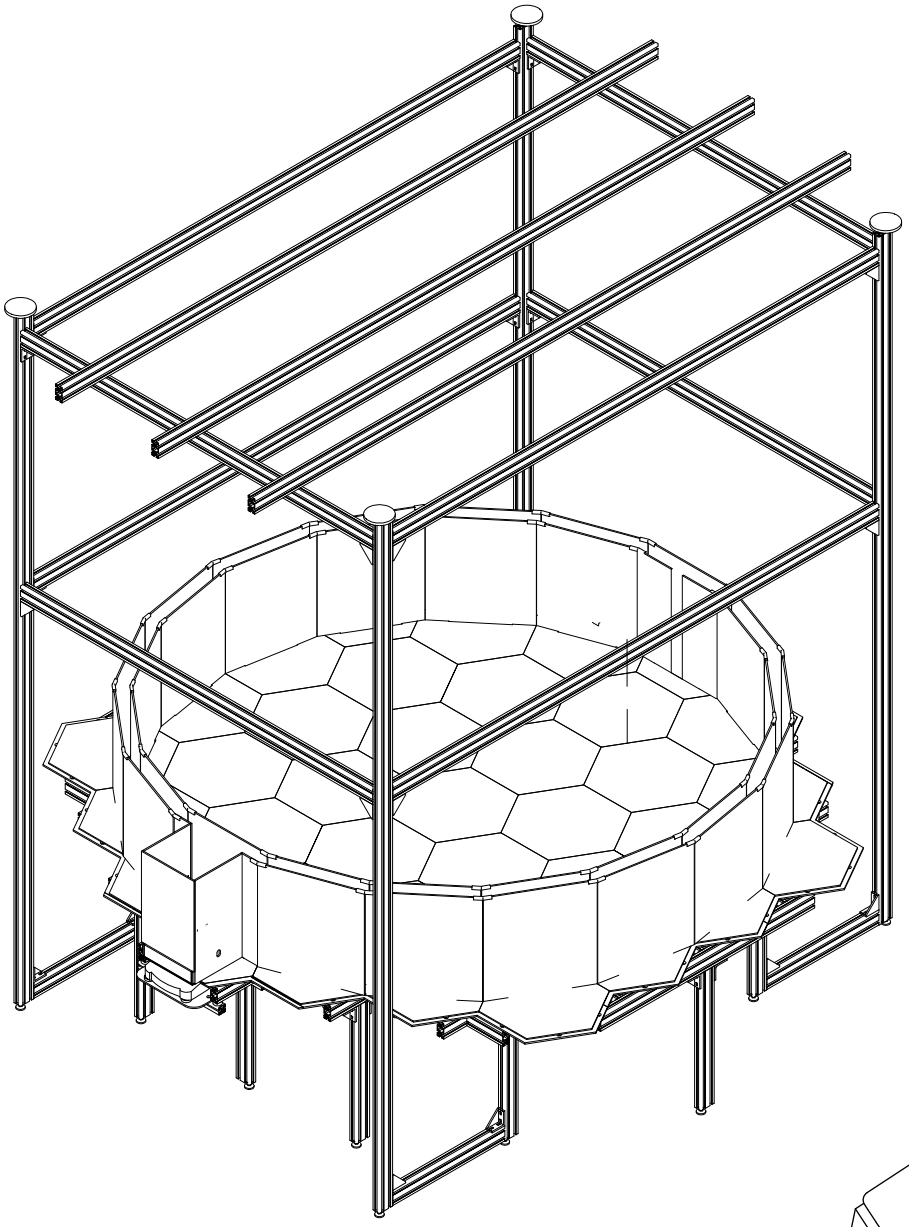

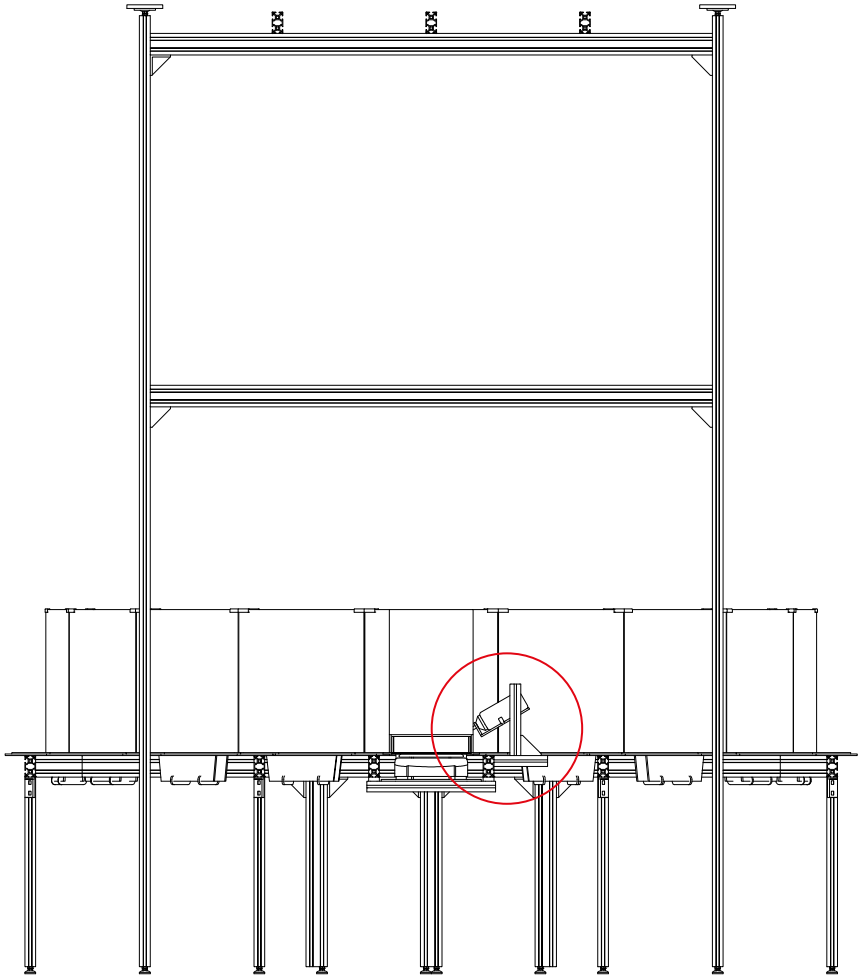

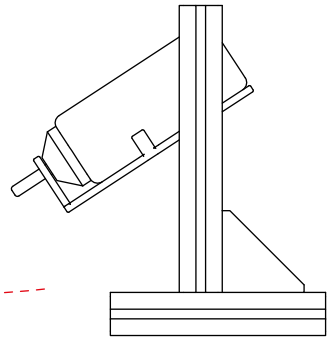

13.