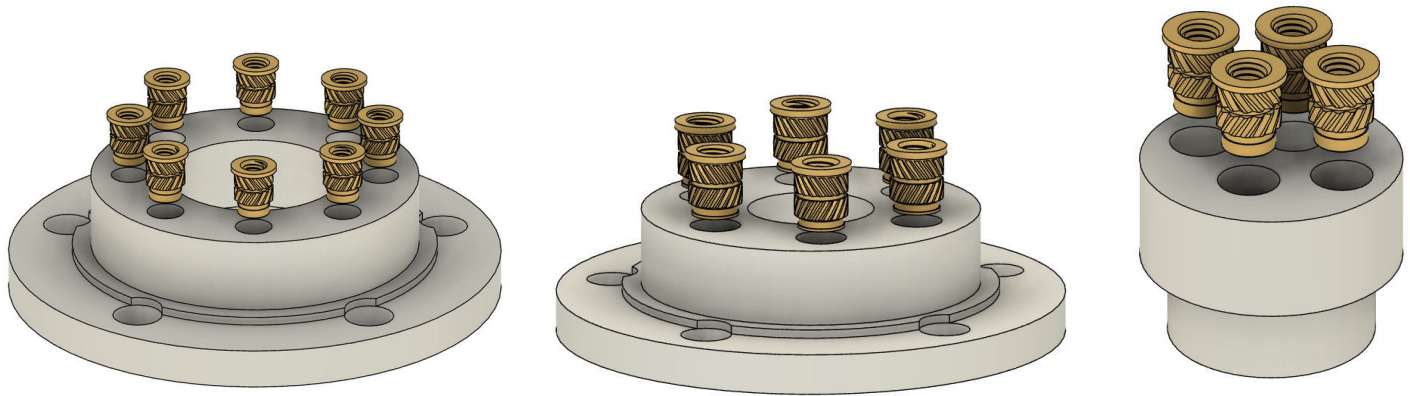
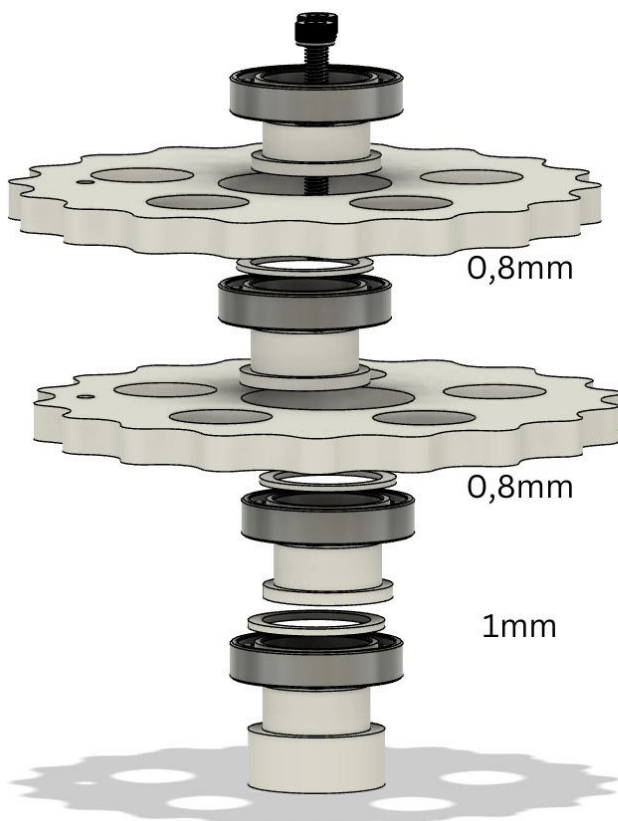


Cycloidal drive assembly guide



1. Insert the M3 and M4 (middle picture) heat set inserts into the bottom shaft, the output and the output roller holder with a soldering iron or a specialized tool.



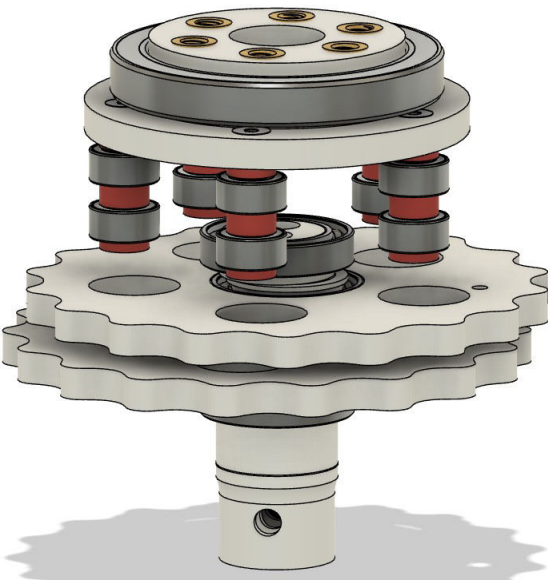
2. Stack the following components in this order:
bottom shaft → bearing(6802) → 1mm spacer → {eccentric cam → bearing → 0,8 mm spacer → cycloidal disc} *2 (with the 2 eccentric cams 180° out of phase) → top shaft → bearing.
Tighten everything with 2 M3 30mm screws



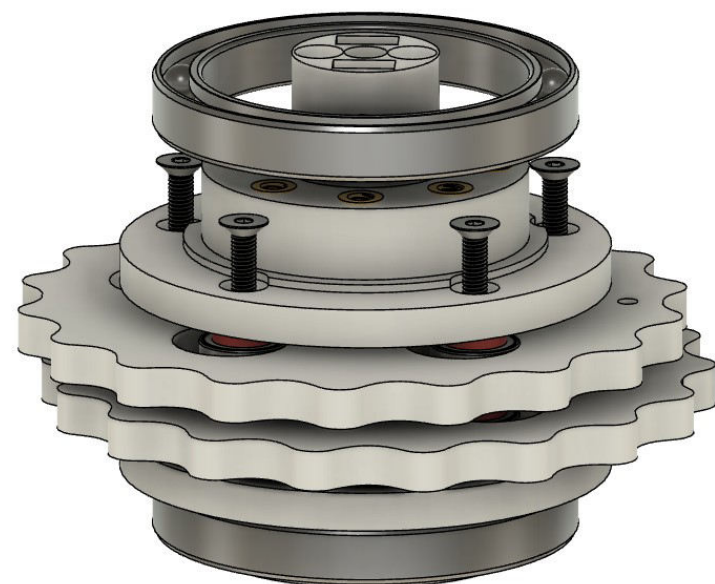
3. Screw the screw sleeves to the output plate with M3 15mm screws.

4. Slide the following components in this order: small bearing spacer → 685 bearing → big bearing spacer → 685 bearing → small bearing spacer.

5. Push the 6808 output bearing onto the output plate.

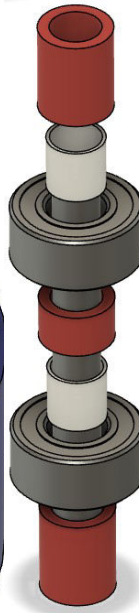
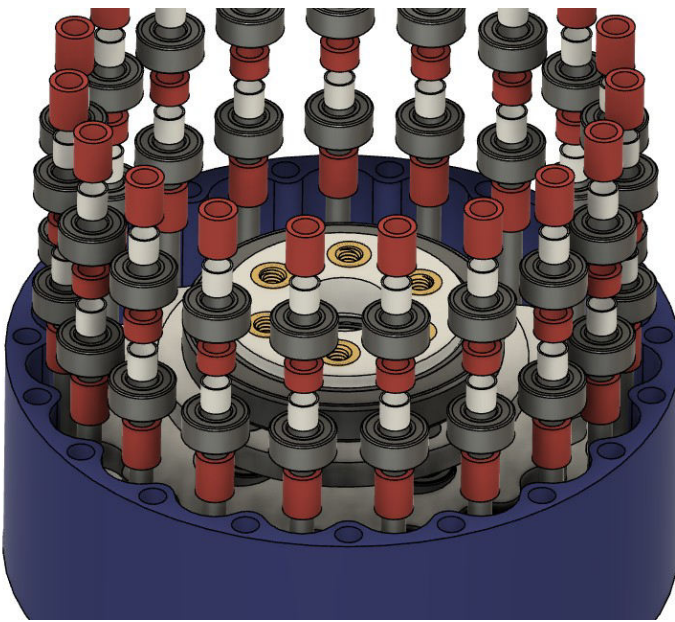


6. Slide the rollers into their designated cutouts in the cycloidal discs and push until the top bearing of the central shaft friction fits into the output plate. (Ignore the bottom motor coupler. It will be connected in step **15.**)



7. Screw the bottom plate into the screw sleeves with M3 10mm screws.

8. Push the 6808 output bearing onto the bottom plate.



9.1 Slide the following components onto the 4mm rods in this order: big bearing spacer → rod sleeve → 685 bearing → small bearing spacer → rod sleeve → 685 bearing → big bearing spacer.

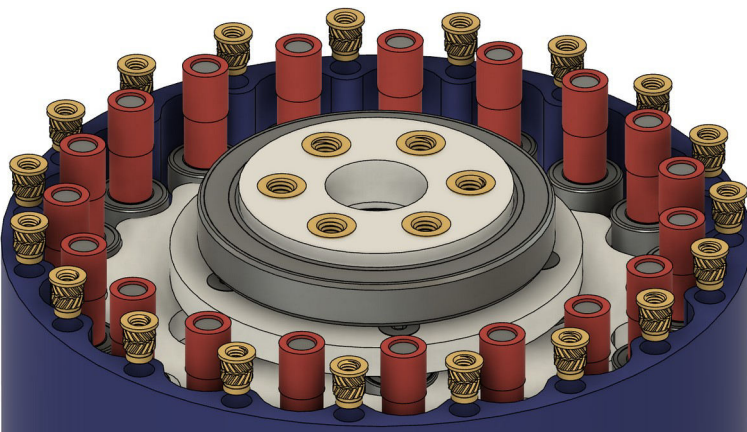
9.2 Slide the following components onto the 5mm rods in this order: big bearing spacer → 685 bearing → small bearing spacer → 685 bearing → big bearing spacer.

9.1: For 4mm rods, if you haven't got 5mm rods or the clearances on the bearings are bad like in my case. Download the spacers for the 4mm version and the rod sleeves.

9.2: For 5mm rods, If the clearances on the bearings are good. Download the spacers for the 5mm version.

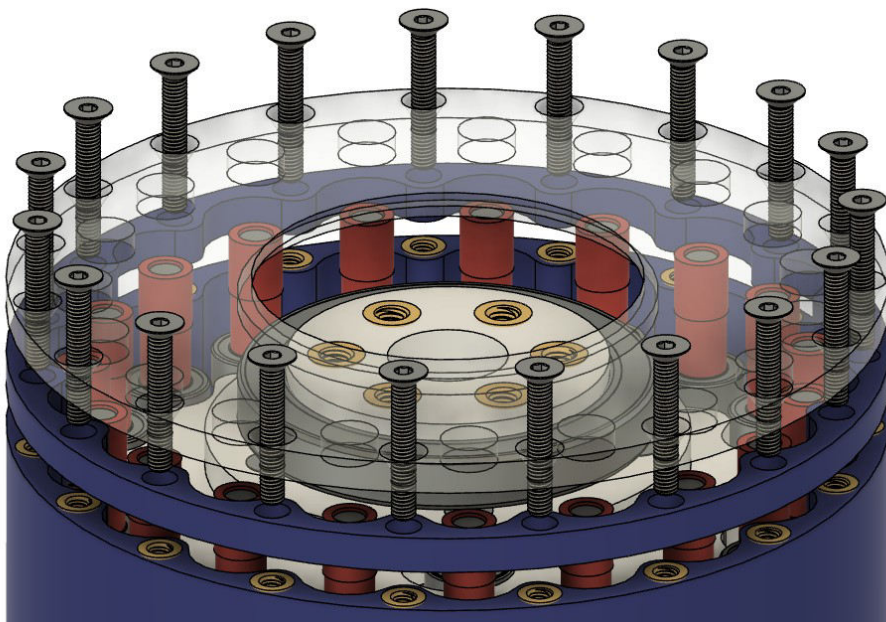
10. Push the cycloidal disc assembly into the housing with the output facing up. **Line up the small holes in the discs.**

11. Put the assembled pins into their holes in the housing



12. Install the M3 heat set inserts (you dont need to install all depending on your use)

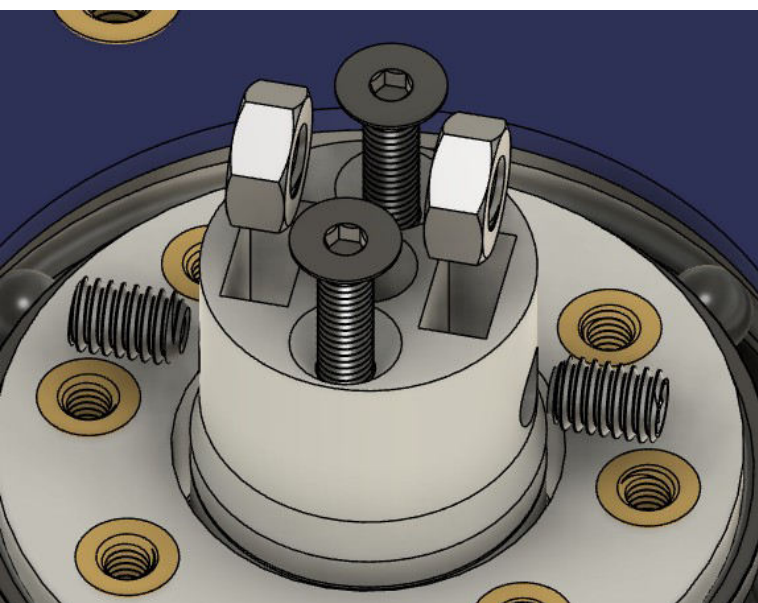
13. If you plan on installing the **acrylic top**: slide the rod sleeves for the top onto the rods. If you pain on installing the **printed top**: skip this step.



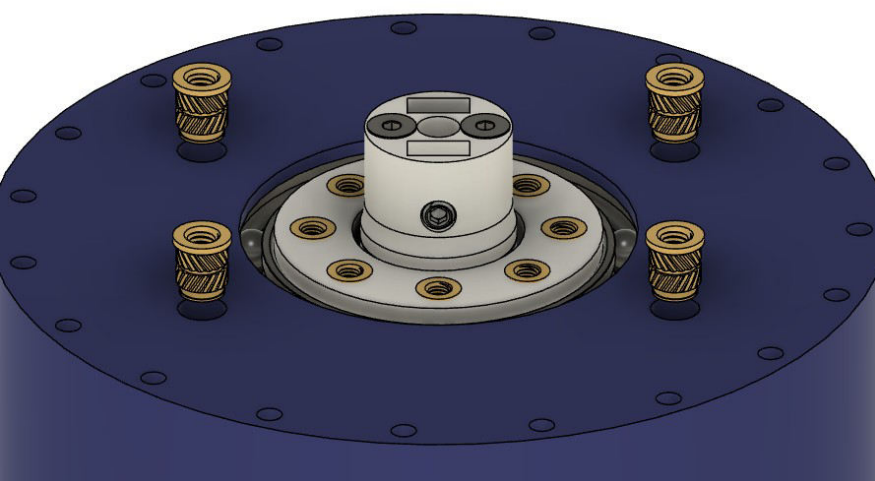
14. If you plan on installing the **acrylic top**: Screw the acrylic top and top spacer down with M3 20mm screws.

If you plan on installing the **printed top**: Screw the top down with M3 20mm screws.

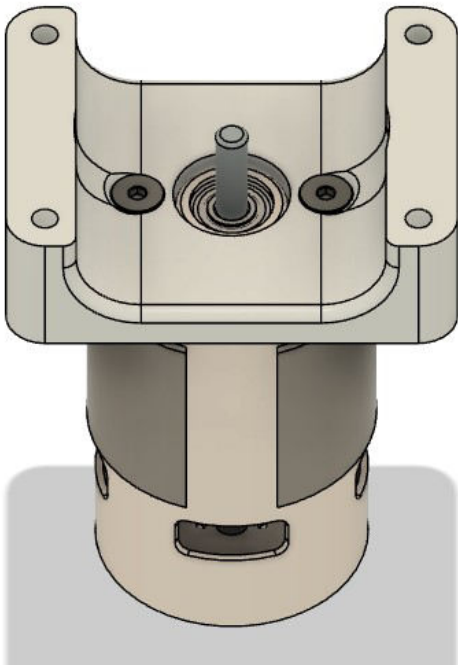
Don't forget to **grease** everything!



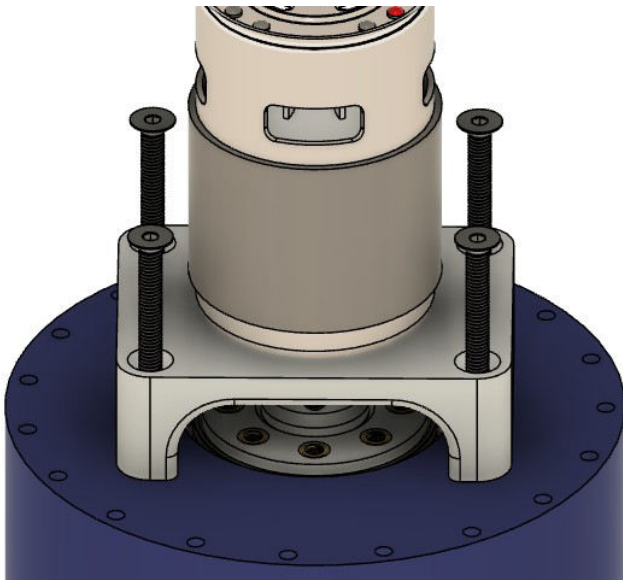
15. Install the nuts and grub screws into the motor coupler and screw it in place with 2 M3 20mm screws



16. Install 4 M4 heat set inserts.



17. Screw the motor to the motor holder with 2 M4 12mm screws.



18. Screw the motor holder with the motor to the housing using 4 M4 30mm screws.