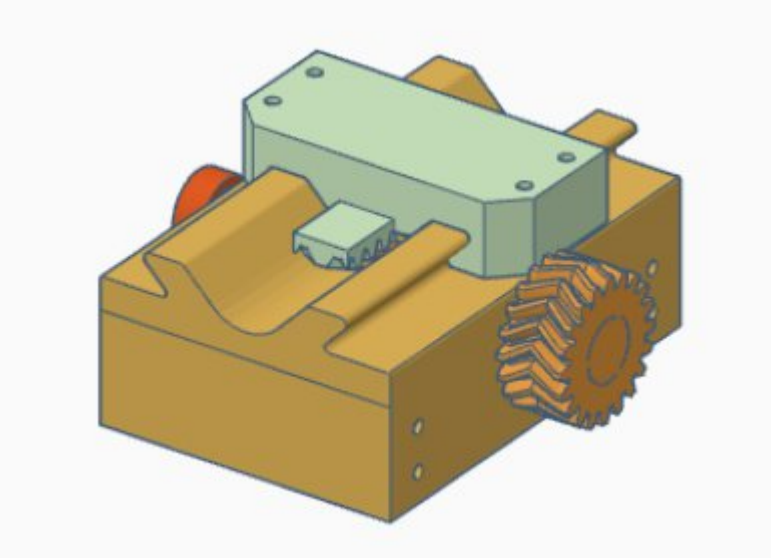
Cheap Lab

Low-cost laboratories through 3D printing innovation

Bangkok University Low Cost 3D printed laboratory

Linear moving stage (Not extras design)



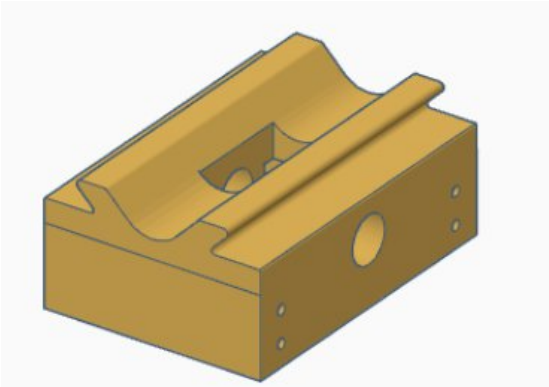
BUCROCCS – Bangkok University

2025

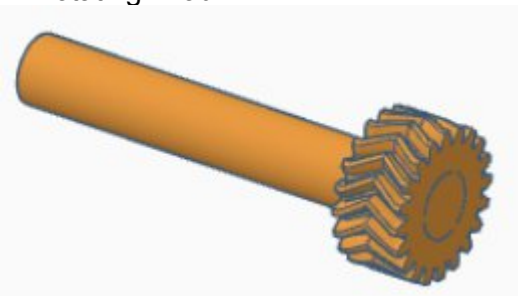
Parts.....2
Assembling the stage.....3

Parts

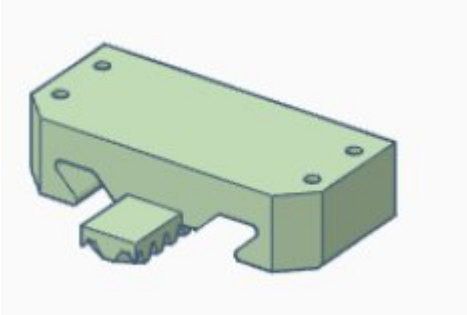
1. Main base



2. Rotating knob



3. Sliding stage



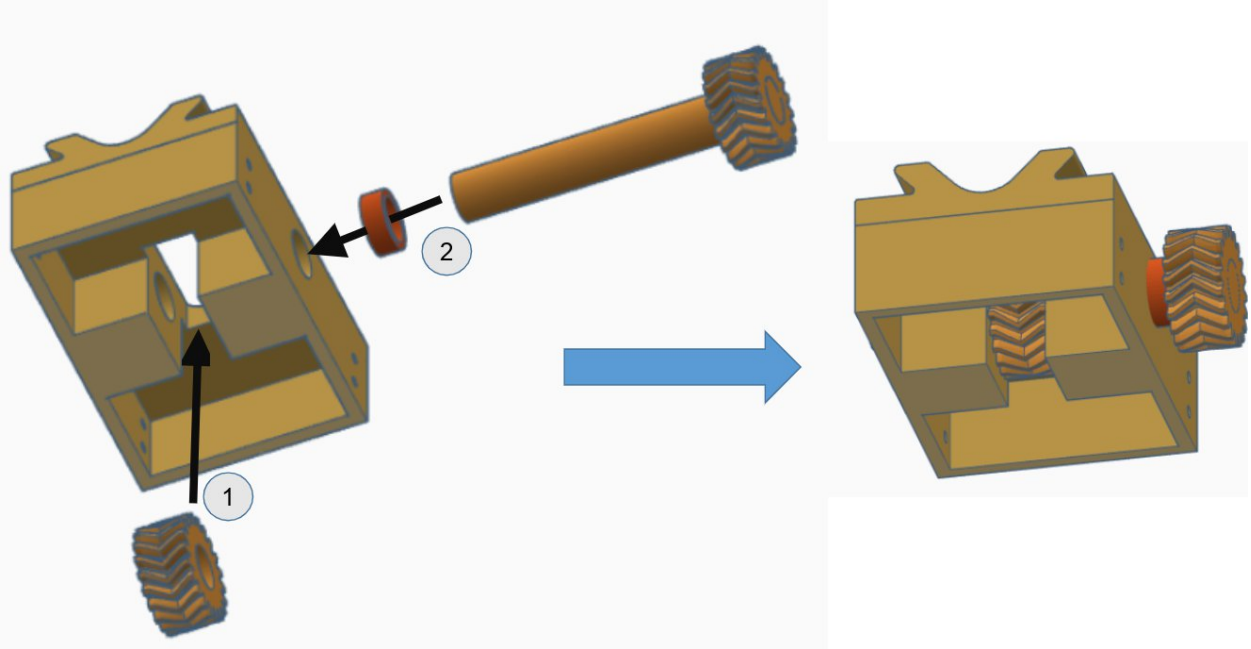
4. Ring



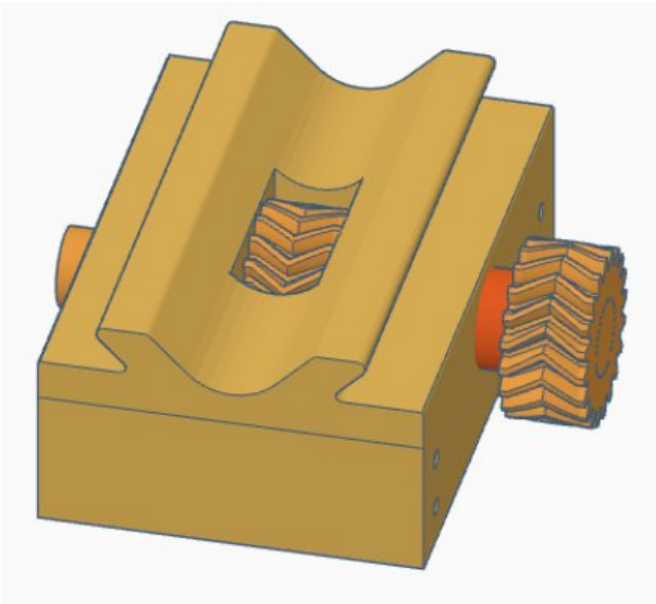
5. Gear



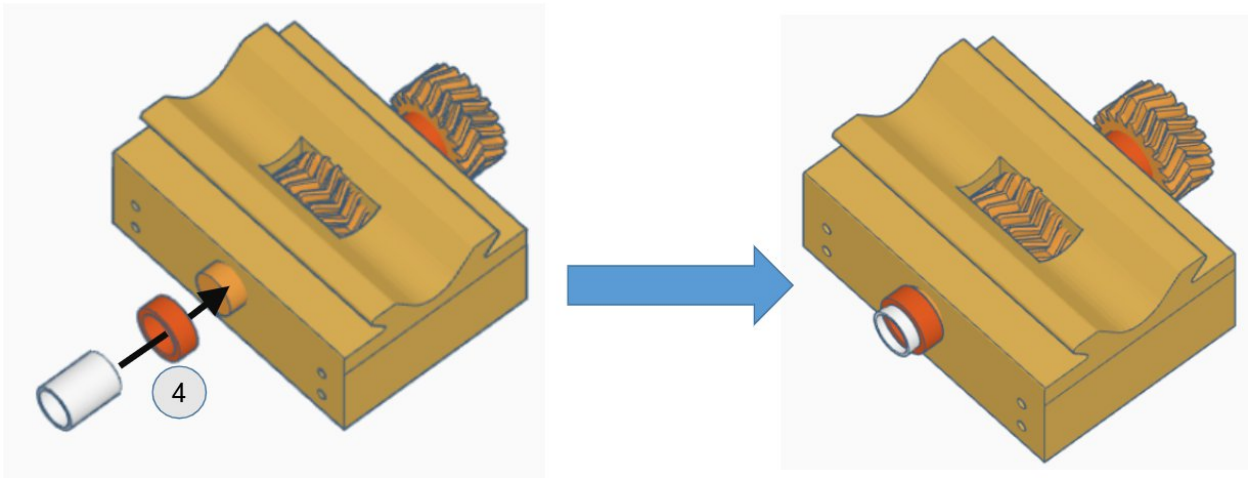
Assembling the stage



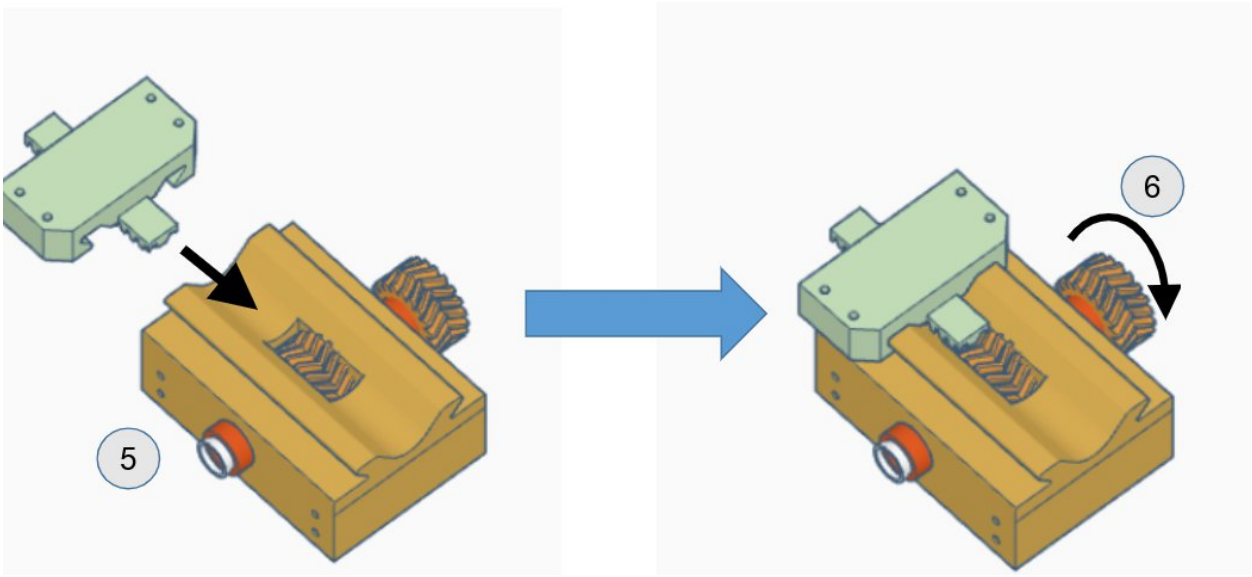
1. From the bottom side, push the gear to be aligned with the holes both sides
2. Push the rotating know with shaft to go through the holes and fits tightly through the gear. This might require controlled force. Make sure that the ring separates the knob from the side of the base.



3. The top side of the gear needs to be popping in the center of the sliding racks as in the figure.



4. Fold a piece of paper two folds and make it in cylindrical shape, then place it to fill the gap around the shaft in the hole at the side of the base. Then force the second ring to tightly fit in the shaft.



5. Slide the sliding part into the main base.
6. Rotate the knob such that the sliding part moves in.