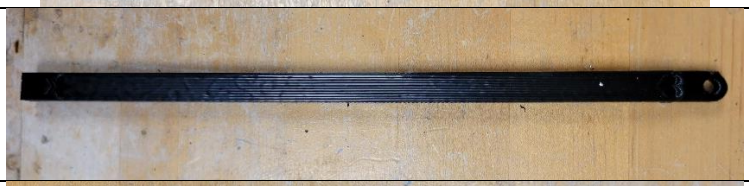
3D Printed Self Feeder Assembly Instructions

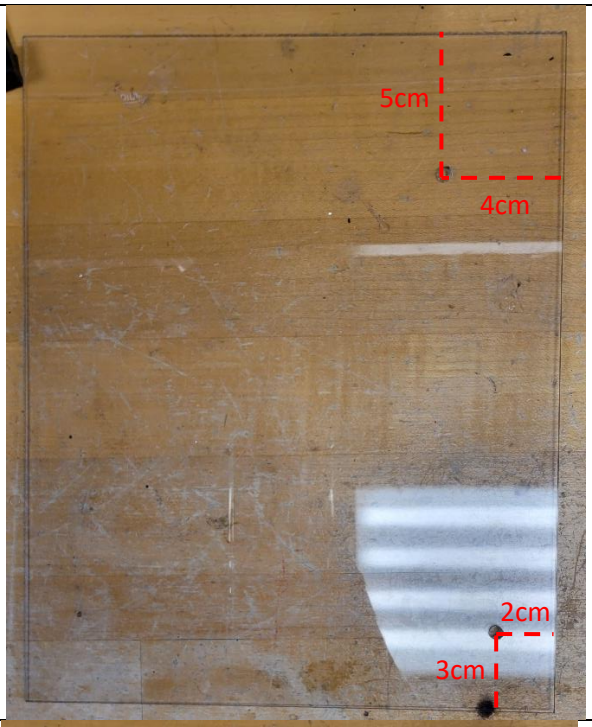
Bill of Materials

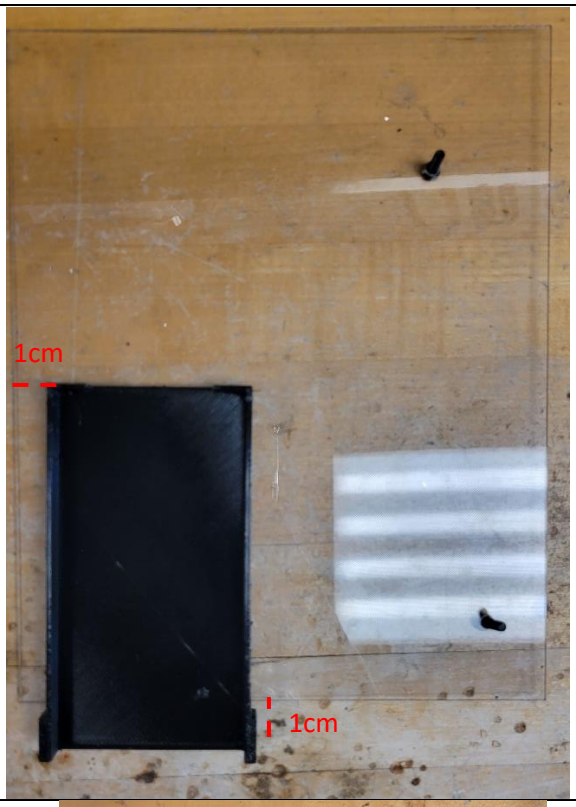
Item	Qty	Cost	Reference Image
Self-feeder chin piece	1	0.06	
Self-feeder food pusher	1	0.12	
Self-feeder food tray	1	0.67	
Self-feeder Link 1	1	0.36	
Self-feeder Link 2	1	0.22	
Self-feeder Link 3	1	0.18	

Self-feeder Mouth trough	1	0.23	
Polycarbonate base	1	7	
M4x15mm bolt	5	0.50	
M4 Nut	5	0.50	

Preparing the parts:

1. Print all parts using PETG at a 0.2mm layer height. All parts are provided as a .stl, positioned for printing. Only the food pusher and mouth trough need supports. 3MF files for those parts are also supplied with supports already added.
2. Clean off any supports or other printing artifacts.
3. The tray, mouth trough, and food pusher should be coated in FDA approved resin to ensure proper cleaning and food safety.

Assembly Step	Reference Picture
Step 1. Two holes need to be drilled into the base. Looking at the base in portrait orientation, do the following: • Hole 1: Measure 4cm in, to the left, from the top right corner, and 5cm down. Mark a spot for drilling later. • Hole 2: Measure 2cm in, to the left, from the bottom right corner, and 3cm up. Mark a spot for drilling. Drill holes through the sheet using a 3/16th drill bit.	
Step 2. Add an M4x15mm bolt through the upper hole from the bottom of the sheet and an M4x15mm bolt through the lower hole through the top of the sheet.	

Step 3. Using Velcro, attach the food tray to the base, positioned 1cm in from the left edge and hanging over the bottom edge 1cm. Velcro will allow for adjusting the position and ease of removal for cleaning.	
Step 4. Each link section of the feeder is marked on either end with a symbol. Match end to end the correct symbols and connect with a M4x15mm bolt and nut. Insert the bolt from the bottom side (opposite of the symbols) of each link connection. Do not over tighten nuts, otherwise the links will be stiff and not move freely. The chin piece with the star slides onto the corresponding link. This allows for easy removal for cleaning.	

Step 5. Place the linkages onto the base, with the upper screw of the base passing through the hole by the heart and the lower screw on the right side of the longest linkage to act as a barrier to prevent it from swinging away. Place the food pusher onto the tray, lining up its slots with the walls of the tray.	

Step 6. Slot in the mouth trough into the tray until the edges of each piece are flush.	
Step 7. Check movement of the linkages by pushing and pulling on the chin piece. If any of the joints feel stiff, adjust the bolt tightness.	

Setup Suggestions

- Place assembled feeder on an appropriate mouth height surface.
    - High-low table
    - Mobility Mount Lap-tray
    - Alternative lap-trays that can meet mouth height
- Dycem pads are a good way to keep it from sliding.