

Designing a Mechanized Dog Feeder for Wheelchair users

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Problem: Manually administering food to a dog presents additional challenges for individuals using wheelchairs due to their limited range of motion. Holistically, the standard process of providing food to dogs using a dog bowl on a floor with the products on the market is ill-adapted to individuals without full use of their legs.

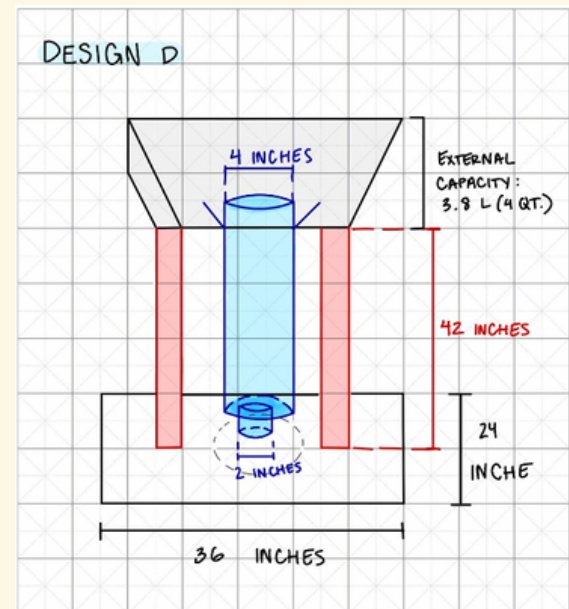
Instructions

- 1 Fill the dog food into the storage container until it becomes completely full
- 2 Position oneself about 20 inches from the beam on the handle side.
- 3 Place the food bowl on the ground below the location of the funnel ending.
- 4 Starting with the handle in the 12 o'clock position, rotate the handle 360° clockwise to administer half a cup of food

Safety Warnings

- 1 The food is in contact with plastic for short periods of time before it is dispensed
The handle must be returned to the 12 o'clock position in order to fully stop the flow of dog food;
- 2 otherwise, excess food may dispense from the device

Design



Care & Maintenance

- 1 When completely filled with dog food, the food storage should provide up to a week's worth of food
- 2 The external food storage can be easily detached for cleaning.
- 3 The Aluminum foil in the external food storage should be replaced every time the storage is cleaned