# ENGR 3421:Robotics I

Mechanical Design



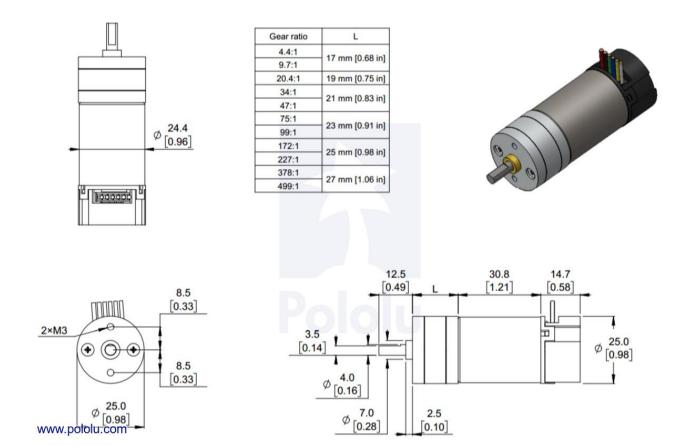
#### FreeCAD

- Download: <a href="https://www.freecadweb.org/">https://www.freecadweb.org/</a>
- Learning Resources: <a href="https://www.youtube.com/c/FreeCADAcademy">https://www.youtube.com/c/FreeCADAcademy</a>

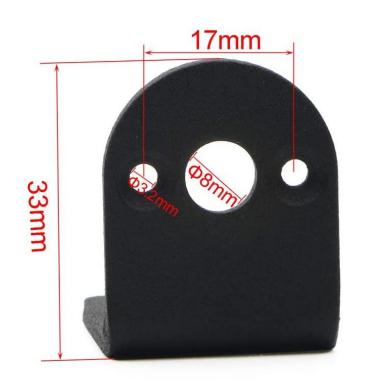
#### Partlist

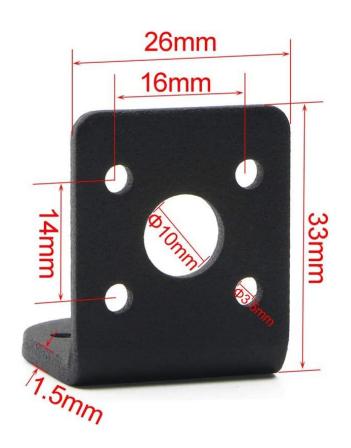
- Motor: <a href="https://www.pololu.com/product/4805">https://www.pololu.com/product/4805</a>
- Motor Bracket: <a href="https://www.amazon.com/dp/B07HHY2BJN">https://www.amazon.com/dp/B07HHY2BJN</a>
- Caster Wheel: <a href="https://www.amazon.com/dp/B072M9S2CO">https://www.amazon.com/dp/B072M9S2CO</a>
- Motor Shaft Adaptor: <a href="https://www.amazon.com/dp/B08M3N9SSG">https://www.amazon.com/dp/B08M3N9SSG</a>
- Wheel: <a href="https://www.amazon.com/dp/B01HCVYJ50">https://www.amazon.com/dp/B01HCVYJ50</a>

#### **Motor Dimensions**

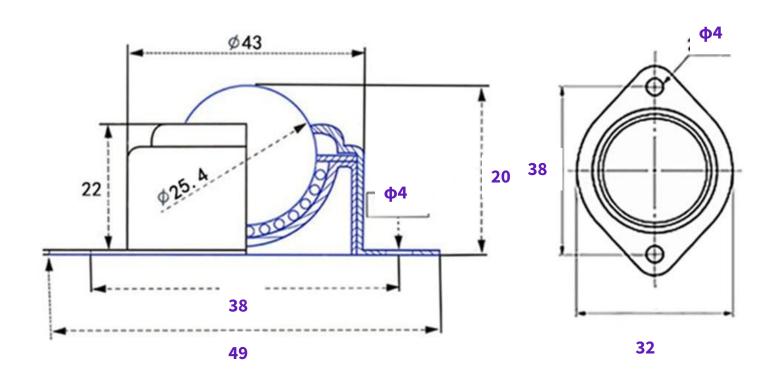


#### Motor Bracket Dimensions





### Caster Wheel Dimensions



## Wheel Dimensions



# Motor Shaft Adaptor Dimensions



# Padding

