ENGR 3421:Robotics I

Mechanical Design



FreeCAD

- Website: https://www.freecad.org/
- Learning Resources:
 - https://www.youtube.com/@MangoJellySolutions/featured
 - https://wiki.freecad.org/Getting started

Partlist

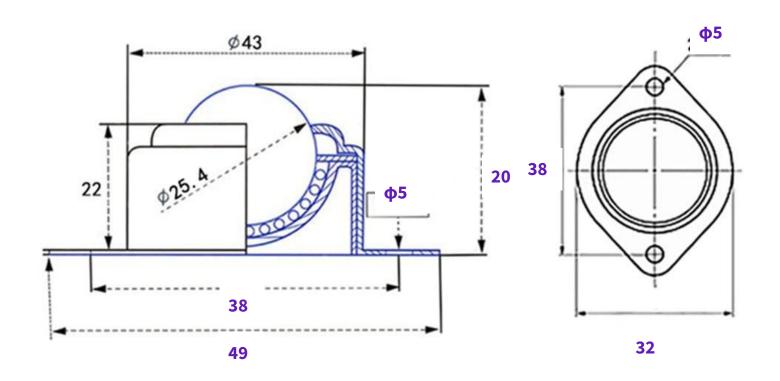
- 3D Printer: https://www.prusa3d.com/category/original-prusa-mini/
- Motor: https://www.pololu.com/product/4805
- Motor Bracket: https://www.amazon.com/dp/B07HHY2BJN
- Caster Wheel: https://www.amazon.com/dp/B072M9S2CQ
- Motor Shaft Adaptor: https://www.amazon.com/dp/808M3N9SSG
- Wheel: https://www.amazon.com/dp/B01HCVYJ5Q

Build Volume





Caster Wheel Dimensions

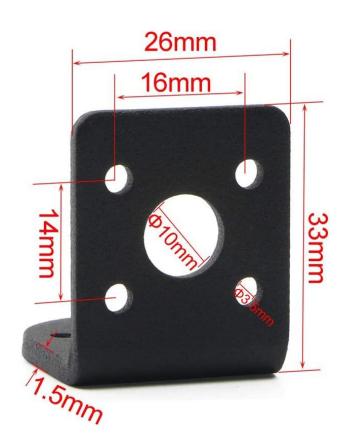


Wheel Dimensions

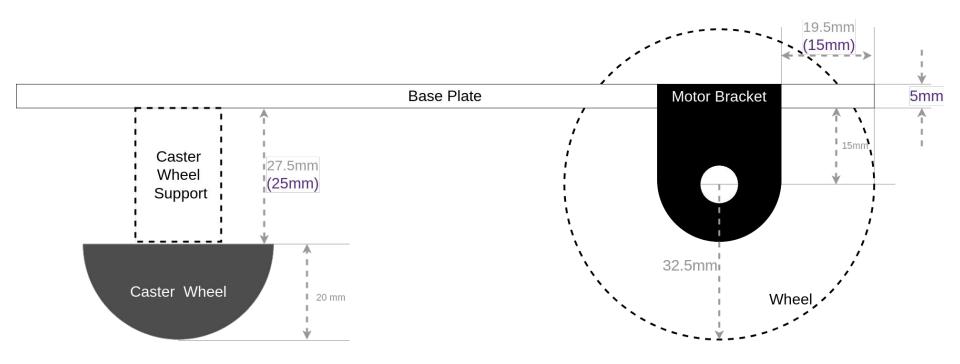


Motor Bracket Dimensions

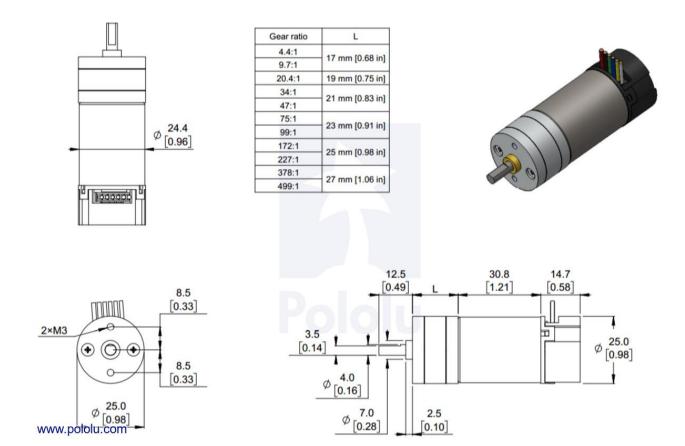




Caster Wheel Support



Motor Dimensions



Motor Shaft Adaptor Dimensions



Makerspace @ Donaghey Hall

Make an appointment <u>here</u>