

Gear Intake Project

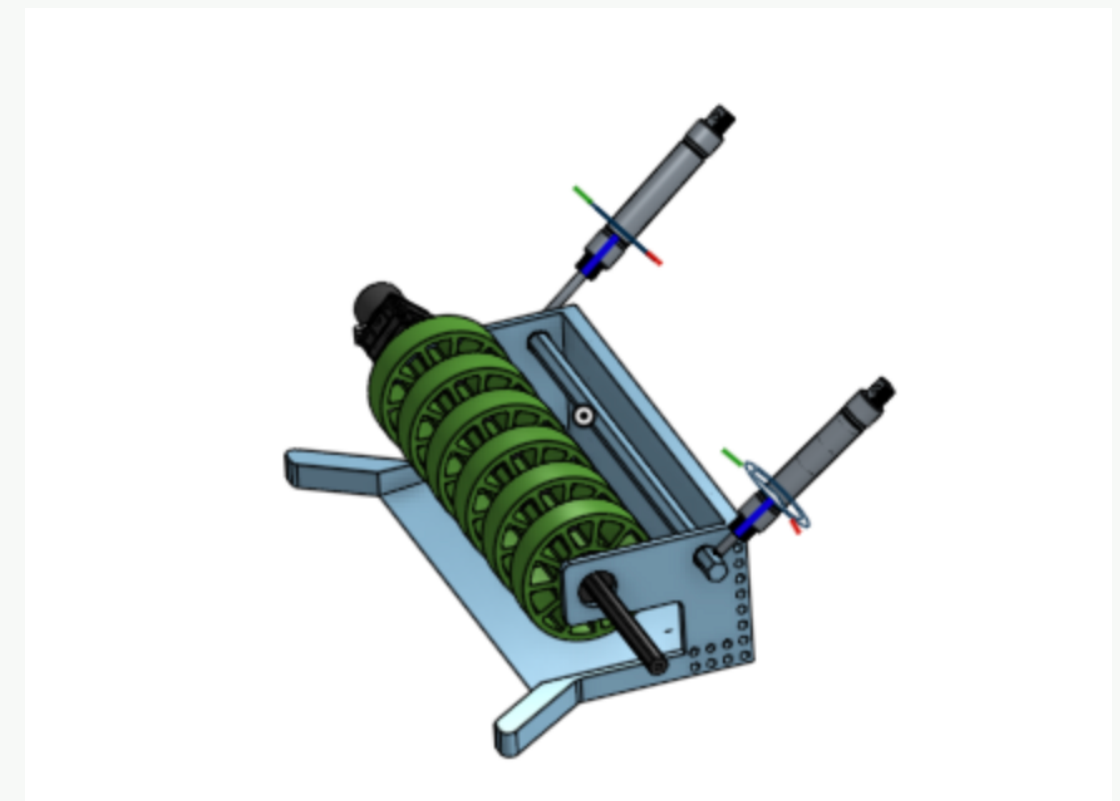


General Description

We made walls to hold axles. and motors. On the axle we attach compliant wheels to take in the gear. We used a wooden base to act as a platform to hold the gear. We used pistons to give the mechanism to positions, which means after picking up the gear from the field, we can lift the mechanism 90 degrees.

Technical Specifications

We used ultrapanetary gearbox. The gear ratio in the gear box is 16:1. We used two 1/2 inch thunderhex, 4 inch compliant wheels, 3D printing filaments walls, and wood platform.



Further Improvement

We would improve on the structure of the intake walls, to make the gear better slide onto the platform. We would also design the way connecting the walls differently, maybe using screws instead of threaded inserts. Also 3D print the bottom slide instead of using an existing plastic piece

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