

7035S

EXTREME HIGH STRENGTH GEAR

Introducing the Extreme-High STRENGTH gear is a gear that is cheap and stronger than other gears.

How

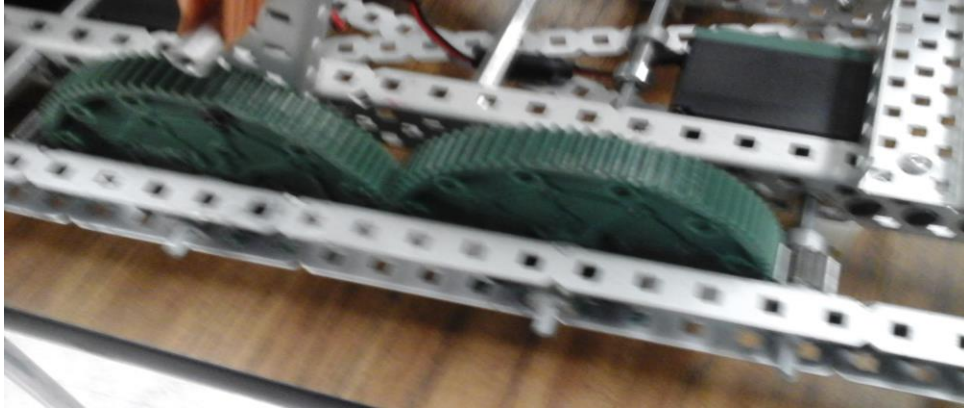
The Extreme-High Strength Gear is a gear that is light and strong. That is done by making the outside out of aluminum, and the inside out of plastic with the holes in it that are made out of aluminum too. They hold the strength but are not too heavy. But, the small holes in the middle are made out of plastic because they are not often used. The main hole is made of steel. This combination within the gear makes a gear that is light and strong.

Inside the Gear

The plastic is connected with the steel in two different ways, the plastic is melted to the steel inside the hole. On the outside, it is glued to the steel holes. It would make it stable enough to carry a lot of tension and stress on the gear without it breaking.

How it improves the robot

This invention would not just improve just our robot, but it would improve many robots in stability, quality, and movement. But, to add to that, it would also improve the movement of our robot by incorporating it in to the lift and the mobile goal intake. And the best part about it is that it is light for its size, so it can't heavy up the lift. This would make our robot easy to handle and would avoid broken gears which costs building time and money, because I think that in VEX robotics, people shouldn't spend their time and money with broken gears and getting frustrated changing broken gears. This allows the robot to pick up heavy items such as mobile goals without any risk of broken gears.



What the team learned

We as a team learned that no part is perfect no design is perfect. To make something understructurebil perfect part is not possible to make. But you can make parts better.