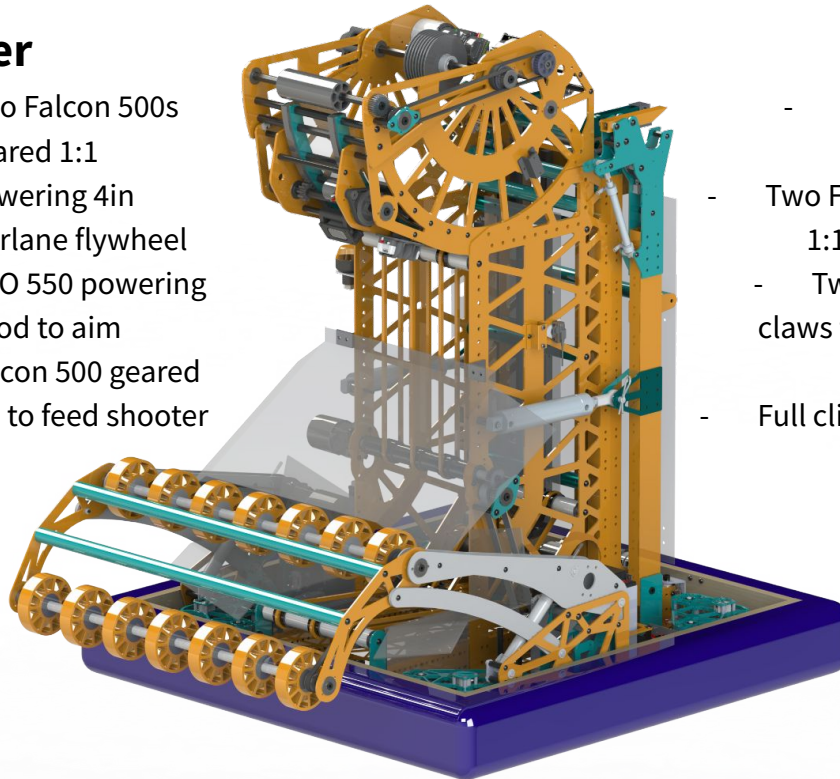


ECLIPSE

Shooter

- Two Falcon 500s geared 1:1 powering 4in Fairlane flywheel
- NEO 550 powering hood to aim
- Falcon 500 geared 1:2 to feed shooter



Climber

- One stage climber elevator
- Two Falcon 500s geared 1:12 custom gearbox
- Two pivot arms with claws that can open and close under load
- Full climbing cycle takes 15 seconds

Intake

- NEO geared 1:3
- Two rollers made of spaced 4in compliant wheels
- Fourbar design for compact stow position

Dimensions: 29.5 X 29.5 X 45.9in, 125lb

Drivebase

- Four SDS MK4i Swerve Modules; Eight Falcon 500s
- 13.5 ft/s max speed

Hopper

- NEO geared 1:3
- Polycord and rollers for active control of cargo
- Color sensor and breakbeam sensor to ensure correct cargo color

Programming

- 6, 4 & 5 ball auto + buddy auto
- Custom, open-source GUI to quickly build autos with realtime feedback & 2 second deploys
- Fast, accurate autoaim feature with precise distance approximation
- Live updateable lookup table allows realtime configuration of shooter