

Team 4499 The Highlanders

Spec Sheet

Introducing: **Chronostar**



Robot Specifications

Weight: lbs. 110 lbs

Full Height: 25"

Speed: 15 ft/sec

Main function: Low, trench bot, shoot from 2 position
(initiation line and close trench)

Intake

Ground pickup

Vectored wheels

Feeder

Hold 5 balls

Beam break sensor ensure consistent ball positioning

All 5 balls can be sent to shooter in under 2 seconds

Vision Processing

Auto targeting feature using Jevois camera using openCV

Hough transform algorithm.

2 driver cameras

Drive Train

Tank drive

2 omnis & 4 traction wheels

4 Falcon motors

Custom chain tensioner

Shooter

Flywheel (2 Falcons)

5 balls in 2 seconds

Shoot from target zone, initiation line and
trench run

Climber

Climbs in under 10 seconds

Can solo level climb

Autonomous

Shoot 3 balls and drive off initiation line

Shoot 3, grab 3 from trench and shoot 3

Auto path generation