



**SABRE BYTES
FRC TEAM 772
SANDWICH SECONDARY SCHOOL
LASALLE ON, CANADA**



GENERAL SPEC'S

- ORIENTATION: LONG
- WEIGHT: 119LBS
- HEIGHT: 46"
- WIDTH: 26"
- LENGTH: 36"

BALL COLLECTOR

- ROLLERS: ABS TUBES ON NYLON BUSHINGS
- URETHANE BELTING: MULTIPLE STRANDS EXTENDING FROM EACH ROLLER FOR QUICK BALL COLLECTION. SPACERS BETWEEN BELTING TO PREVENT JAMMING

HYBRID

- MULTIPLE HYBRID MODES TO ACCOMMODATE FOR EACH MATCH'S STRATEGY
- EASILY CHANGE MODES ON DASH BOARD

MODES

- i. MOVE FORWARD AND SHOOT 2 BALLS (LINE UP IN MIDDLE)
- ii. FEED ALLIANCE PARTNER OUR TWO BALLS (LINE UP TO FEED ALLIANCE PARTNER)
- iii. SHOOT TWO BALLS (WITHOUT MOVING). GET FED ALLIANCE PARTNERS BALLS (LINE UP IN MIDDLE)
- iv. SHOOT TWO BALLS, GO TIP BRIDGE AND SHOOT BALLS COLLECTED FROM BRIDGE (LINE UP IN MIDDLE WITH NO ROBOT BEHIND)
- v. SHOOT TWO BALLS, GO TIP BRIDGE. (LINE UP IN MIDDLE WITH NO ROBOT BEHIND)
- vi. DRIVE TO FENDER AND SHOOT TWO BALLS (LINE UP ON RIGHT SIDE)

SHOOTER

- DUAL WHEELED FOR A MORE CONSISTENT AND ACCURATE SHOT
- ADJUSTABLE SPEED FOR DIFFERENT DISTANCE SHOTS
 - FENDER SHOT
 - SHOT FROM FRONT OF KEY
 - SHOT FROM BACK OF KEY
 - SHOT FORM BRIDGE
- IN MOST CASES THE TOP WHEELS OF SHOOTER ARE NOT SPINNING, TO GET BACK SPIN. BACK SPIN WILL HELP GET OUR SHOTS MORE ACCURATE

TURRET

- SHOOTER IS MOUNTED ON A TURRET SYSTEM
- MAKES LINING UP THE SHOOTER FOR A SHOT A LOT EASIER AND QUICKER
- DRIVER HAS CONTROL OVER TURRET
- CAMERA TRACKING SYSTEM AND A GAUGE ON THE DASH BOARD HELPS DRIVER ALIGN SHOOTER

