

245

“ANASTASIA”

ADAMBOTS

Chassis & Drivetrain

- Custom chassis design with west coast mecanum wheel drive
- Multiple tube thicknesses selected for optimum strength and weight

Tote Intake

- Accepts totes off the ground
- Surface durometer of Shore 30A selected for gripping totes
- Dual bag motor drive
- Pneumatic controlled wheel position
- Reconfigures to transport configuration without tools

Internal pickup

- Stacks up to 5 totes from the bottom up
- Mechanism operates in reverse to place

External pickup

- Handles both recycling containers and totes
- Lifting height capable of placing recycling container on a 5 tote stack
- Capable of Co-opertition tote stacking
- Reconfigures to transport configura-

Controls & Programming

- Photo-eye to confirm tote positioning
- Programmed in Java
- 3D printed encoder mount

Autonomous

- Forward path to auto zone, capable of pushing tote
 - Currently working on multiple autonomous modes

