

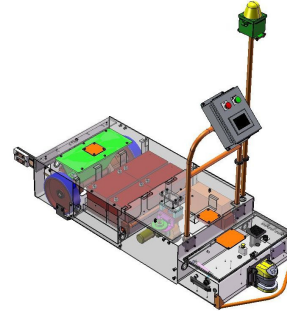
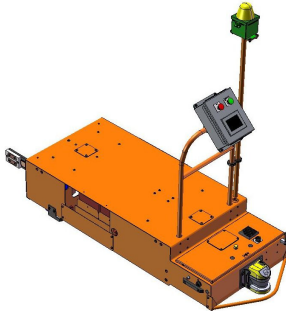


**AUTO CRAFT  
TOOL & DIE**



# AUTO-CART

## MODEL: E-3500 TUGGER AGC SPECIFICATIONS



AUTOMATED GUIDED CARTS SHOWN VARY BASED ON CUSTOMER SELECTED OPTIONS

### AUTO-CART STANDARD FEATURES:

- **Drive and Steering:**
  - High Torque 900 watt 10" DC motorized differential transaxle
  - 144 watt geared steering motor with position feedback
  - Integral fail-safe brake
- **Guidance:**
  - Magnetic or color camera guidance with path detection
  - Dead reckoning capability
- **Operation controls (Hardware):**
  - Microprocessor controlled for all AGC operations
  - Color touch screen for programming and information
  - Radio communications, 2.4GHz or 900MHz
  - Regenerative servo drive with encoder feedback
  - Floor sensor for location ID, Magnetic or RFID
  - Programmable sound module
  - Flashing LED light for diagnostics at a quick glance
  - Safety Laser Scanner with programmable fields
  - Pin lift for tunneling applications
  - 24VDC user I/O for on board control
  - Built in battery charger
  - External charge shoes
  - 4-12VDC Gel Batteries
- **Operation controls (Software):**
  - Simple and easy to use HMI programming screen
  - Routes are set up as a series of seamless steps
  - Each step sets the following operations
    - Distance move (in inches) or time (in seconds)
    - Forward/Reverse motion
    - Speed in inches per second
    - Center, left , right path selection
    - Sound selection and volume
    - Safety Scanner patterns
    - User defined output control
    - User definable Input Triggers

### AUTO-CART STANDARD FEATURES (Con't):

- **System Operation:**
  - Unique Auto-Cart feature: Cart to Cart radio blocking provides traffic control at intersections without the need of an additional controller. AGC's see each other via radio and each of the 1500 steps can pause for a selection of up to 8 steps/routes occupied by another AGC.
  - Local/Master Dispatch bits allow complex routes to be simply selected at the point and time of dispatch
    - Dispatch bits can be selected locally on HMI, or managed by Master Controller
  - Master Controller can be a simple microprocessor controlled radio or a PLC with plant graphics and part tracking information; various PLC brands available
  - Master control system monitors AGV status such as location, battery status, and full diagnostics, and communicate with plant Information Systems
  - Master Controller can include various control features like: launch, traffic control, dispatch, synchronous motion
- **Charging System:**
  - Charging options include on-board, on path at pause points, or side-line charging stations

### SPECIFICATIONS:

- AGC Cart Weight w/Batteries ..... ~585 lbs
- Battery Weight w/Tray – 2 Trays & 4 Batteries .... ~190 lbs
- Live Load Capacity (on deck) ..... 1000 lbs
- Towing Capacity ..... Up To 3500 lbs
- Max. Speed ..... 150 FPM
- Drive Voltage ..... 24 VDC
- Stopping Accuracy..... ~±.5 Inch
- Ground Clearance ..... 1 inch
- Min. Turn Radius (90°) ..... 39 inches @ 90 FPM
- Deck Dimensions.....46" L x 25" W x 12" H
  - Overall Length w/Bumper.....~70.5 inches
- Deck Material..... Pre-Punched, Formed & Welded Steel

### NOTES:

Please consult the factory for a list of options, price, delivery and AGC application assistance. Demo and proto-type vehicles may be available, contact your sales representative for details. Specifications may change without notice. Contact the factory if there are questions.

**IMAGINATION and INNOVATION ARE THE ANSWER**