

## Savant DT-100 Automatic Guided Vehicle Systems

[Inventory ID #202270]



- 6 – Savant DT-100 Tugs:
  - Only 1,400 hours.
  - 50,000 Pounds Towing Capacity.
  - Wireless or Wire guidance.
  - Automatic or Manual Operation.
  - RF Communication.
- 16 – 5 ft. x 11 ft. trailers.
- 6 – 240 volt chargers and stands.
- Battery racks with rollers.
- Raymond Forklift for loading batteries.
- Rugged steel frame construction for industrial environments.
- All manuals and schematics included.
- **Mechanical Specifications:**
  - **Towing Capacity:** 50,000 lbs. (22,727 Kg) rolling load (Towing capacity on level grade with 2% coefficient of friction trailers).
  - **Drawbar:** 1000 lbs. (4,553 Kg) rolling load (based on dry concrete with brushed surface or equivalent).
  - **Ramp:** Up to 2% without de-rating towing capacity (ramps exceeding 3% require special evaluation).
  - **Drive Configuration:** Dual rear wheel drive: integrated motor, transmission, and drive wheel.
  - **Drive Motors:** 5 HP (x2), 48 VDC, series wound.
  - **Transmission:** planetary gear hub with right angle adapter.
  - **Steer Configuration:** Single front wheel steer.
  - **Drive Wheels:** 18" (457mm) diameter x 6" (152mm) wide rubber.
  - **Front Wheel:** 10" (254mm) diameter x 3" (76mm) wide urethane.
  - **Brakes:** Electric, fail-safe.
  - **Frame:** 1/2" laser cut steel plate, 3" x 4" steel tube.

- **Battery Compartment:** 39.0" (978mm) L x 30.0" (762mm) W x 29.0" (737mm) H with roller conveyor access.
- **Vehicle Weight:** 2,250 lbs. (1,023 Kg) without battery.
- **Speed in Automatic:** 200 fpm (61 mpm, 2.3 mph), 16 speed ranges.
- **Coupler:** Jaw, ball, or towing eye.
- **Manual Operation:** Operator onboard compartment with joystick control, electric steering and braking.
- **Key switches:** Automatic/Manual, On/Off.
- **Turning Radius:** 8 feet (2.438m) minimum.
- **Control Specifications:**
  - **Controls:** Single board computer, CAN bus.
  - **Electrical System:** 48-volt power.
  - **Navigation System:** Virtual wireless navigation (inertial) or wire-based guidance.
  - **Communications:** Via Radio Frequency (RF).
  - **Routing and Traffic:** Onboard control logic.
  - **Battery System:** Heavy-duty industrial grade battery with discharge meter.
  - **Position Accuracy:** ?1" (25.4mm) stopping, ?1" (25.4mm) side to side.
  - **Battery Information:**
    - **Battery AH:** 1125 AH (maximum) flooded cell, 1,100 AH sealed (maintenance free).
    - **Battery Weight:** Flooded – 4,400 lbs. (2,000 Kg); Sealed – 4,200 lbs. (1,909 Kg).
    - **Battery cycle:** 8 hours minimum, based on standard duty cycle of 20% idle, 40% in motion full speed loaded, 40% in motion full speed unloaded.
    - **Charging Method:** Manual battery exchange standard (or optional automatic charging).

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