

## Vision Guided Vehicle

### GT10 Tow Tractor

Simple. Affordable. Flexible.



*“VGVs help employees work more efficiently in the manufacturing area. Planning and time management are improved because they know when the vehicles will return. Team members even provide suggestions on how to improve our lean process with the use of VGVs.”*

*Mark Hamilton  
Transportation/Logistics  
Aisin USA*

So advanced, it's simple. The vision guided vehicle (VGV) GT10 tow tractor used with trailers, trains, carts, or dollies is an effective transport solution to support lean manufacturing, improving internal material flow for loads up to 10,000 lbs. The GT10 eliminates waste in labor resources typically used for non-value added transport applications such as parts-to-line, end-of-line, and kitting.

Designed for easy operation and flexibility, Seegrid's vision guided tow tractor utilizes RideThruThenWork™ deployment with no infrastructure, facility modifications, or engineering resources required. The most simple, affordable, flexible automated tow tractor solution for moving product in manufacturing, as well as warehousing and distribution facilities, the VGV travels without wires, lasers, tape, or magnets. Seegrid's Vision technology provides operators complete vehicle control to quickly modify or add routes without engineering support. Attach the load to the GT10 tow tractor, type in the route on the keypad, and the VGV is ready to transport.

Designed as a lean solution for optimizing material flow and throughput, the VGV tow tractor increases profitability, improves operational efficiency, reduces inventory on the floor to improve just-in-time delivery, reduces labor and operating costs, improves worker and facility safety, and reduces product, facility, and equipment damage.

The GT10 tow tractor can be deployed as a stand-alone or scalable automation solution. Integration with current software systems, such as Manufacturing Execution Systems (MES) or Warehouse Management Systems (WMS), maximizes the use of VGVs in a facility, improving operational efficiency.

With safety a priority in all Seegrid products, the GT10 tow tractor meets U.S. safety related standards when used as directed by properly trained personnel. The GT10 operates in both automatic and manual mode.

## Specifications

**Maximum Capacity:** 10,000 lbs.

**Maximum Speed Automatic:** 2.4 mph

**Maximum Speed Manual:** 4.4 mph

**Width:** 36"

**Height:** 96"

**Length:** 60"

**Weight:** 1,860 lbs.

**Battery:** 24V, not included with purchase

**Wheels:** Rubber

**Grade:** 2.5%

### Environment

- Only indoor operation
- Temperature min. 32°F, max. 104°F
- Humidity 20-95% RH (non-condensing)
- Floor conditions should be free from oils, moisture, uneven and cracked flooring, and debris

### Additional Features

- Route capacity: 15 miles
- Unlimited individual routes

### Turning Radius

- Manual minimum outside: 46"
- Automatic minimum outside: 96"

### Battery

- Battery amp/hr maximum capacity: 840
- Battery compartment: (LxWxH) 33.3"x 13.5"x 31.6"
- Battery connector: Seegrid standard, Red SB-175
- Battery weight: min. 854 lbs., max. 1,500 lbs.
- Battery change roll deck standard

### Safety

- ANSI/ITSDF/ B56.5-2012
- ANSI B11.0
- Primary personnel detection safety system
- Secondary object detection system
- ISO 13849 category 3 emergency stop buttons
- LED lightbar
- Turn signals
- Acoustic warning system
- Safety mat in driver's compartment

### Standard Behaviors

- Slows down during turns for maximum safety
- Stops if it detects an object in the primary personnel or secondary object detection systems, resumes after object is removed
- Always sounds horn before beginning or resuming automatic travel

### Trained Behaviors

- Timed pauses at intersections where other traffic has right of way
- Wait to start until operator presses *Push to Work* button for GT10 to continue
- Sounding the horn in busy areas, near walkways, in turns, etc.
- Ramps



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