

System Report

Customer: Westpoint Stevens
Location: Valley, Alabama
Equipment: 8 tugger AGVs
 ▪ 58" wide
 ▪ 5000 lb. capacity
Installed: 1997,1998,1999
Guidance: Inertial
Battery: 24 Volt, 540 AH
 ▪ Sealed lead-acid
 ▪ Automatic Charge
Guidedpath
 Length: 3500 Feet



System Description

The Automated Guided Vehicle System for the Westpoint Stevens facility in Valley, Alabama has eight battery-powered Egemin Automation Model S701-C624 AGVs. These AGVs tow Westpoint Stevens-supplied trailers between the dryer room, the consolidated cloth room and full trailer storage. A maximum of two trailers per AGV will be towed at any one time. The trailers have a diamond shape wheel arrangement and can weigh up to 1500 pounds each.

Each AGV has an on-board microprocessor that controls the AGV and communicates with other AGVs in the system. This processor determines the AGV's location by taking input from encoders, a gyroscope and a magnet reader. It routes itself to destinations selected and entered into the AGV's keypad by Westpoint personnel.



While traveling, it verifies its location on its internal System Map and communicates that location to other AGVs in the system.

The AGVs are equipped with an automatic charging system. At certain intervals, the AGV dispatches itself to the automatic battery charger. The charger puts enough energy back into the battery to allow the AGV to run for 1 hour minimum and then releases the AGV. The AGV continues to run and then auto charge when it reaches 24 VDC every 1 to 2 hours, depending on the AGV's workload.

Special Features

- Lights at operator stations that indicate AGV arrival
- Custom hitch
- 900 Mhz spread spectrum radio network
- Graphical system monitor