



Features

Date Installed:	May 2008
Facility Location:	Indianapolis, IN
Vehicle Type:	Roller Deck
Number of Vehicles:	2
Vehicle Capacity:	2,100lbs
Vehicle Speed:	235 FPM
Load Description:	Engine Transmissions
Guidance Method:	Laser
Battery Charging Method:	Opportunity
SGV Host Controls:	Windows- SGV Manager
Throughput:	700 Transmissions/day



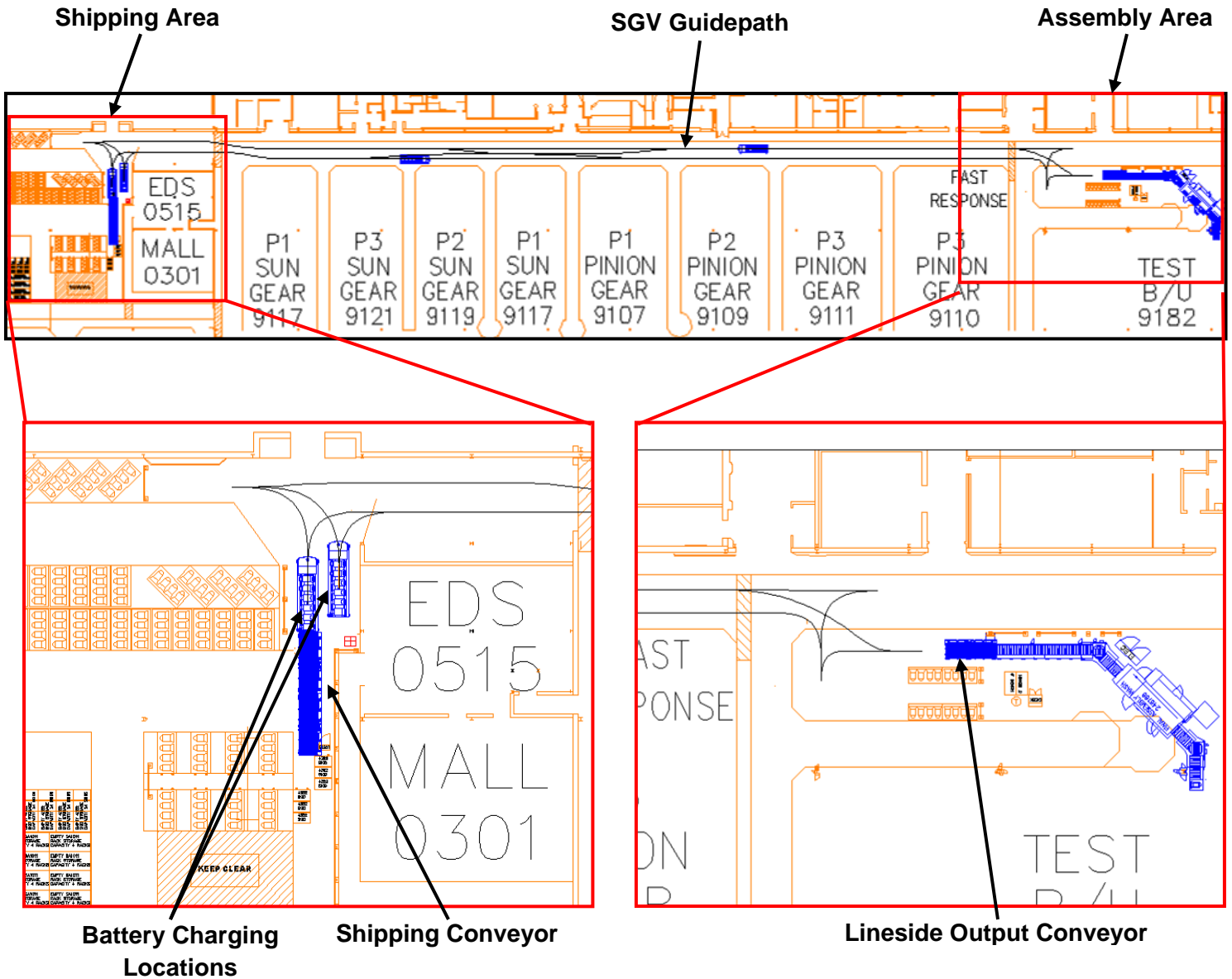
System Description

The roller deck Self Guided Vehicles (SGVs) transport six transmissions at a time from one lineside conveyor in the assembly area to another conveyor located in the shipping area. The SGV Manager Software assigns orders to the SGVs and monitors the system. When the lineside conveyor in the assembly area accumulates six transmissions the conveyor sends a pick request to the SGV Manager. The SGV Manager assigns the order to an available roller deck vehicle to pick up the transmissions from assembly and transport them to the shipping conveyor. When the vehicle arrives it communicates with the conveyor through a local IR handshake. The vehicle communicates to the conveyor that the last zone of the roller deck is clear and that it is prepared to accept one transmission. The transmission is then transferred to the vehicle. This process is repeated and transmissions are loaded on to the vehicle one at a time until the last transmission is loaded. Once the last transmission is transferred the vehicle will proceed to the shipping conveyor where it unloads the transmissions.

Benefits:

- Eliminates the need for pallets, racks, containers, etc. to transport materials
- Reduced operating costs
- Improved material flow
- Flexible solution for changing plant demands
- Improved safety

System Layout



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