



**Features**

Date Installed:	2006
Vehicle Type:	Counterbalance
Number of Vehicles:	2
Load Description:	Full, Partial & Empty Stems (Spools) of Heavy Gauge Copper Wire
Industry Description:	Manufacturing
Guidance Method:	Laser Navigation
Vehicle Capacity:	6,000 lbs
Vehicle Speed:	200 FPM
SGV Host Controls:	Windows 2000 – SGV Manager
Battery Charging Method:	Fast Charge
Facility Location:	Chester, NY

**System Description**

The Self Guided Vehicle (SGV) system at Nexans runs 24 hours/day 365 days/year and supports the handling of 13 products. The system consists of two counterbalance SGVs which transport full, partial, and empty stems (spools) of heavy gauge copper wire through out the production process. Full stems are transported from the insulating line to the buffer storage area. From the buffer storage area the stems are transported to supply product to the Jacketing, Armoring and Cabling Lines. The SGVS are also responsible for transporting empty spools within the captured manufacturing process. All material transport requests are initiated by operators using touchscreens at each of the lines. These requests are sent to the SGV Manager which is responsible for controlling the order process and monitoring the SGV fleet. When an order is initiated by an operator, the SGV Manager assigns the appropriate vehicle to complete the task. Communication between the SGV Manager and the vehicles is achieved using RF access points.

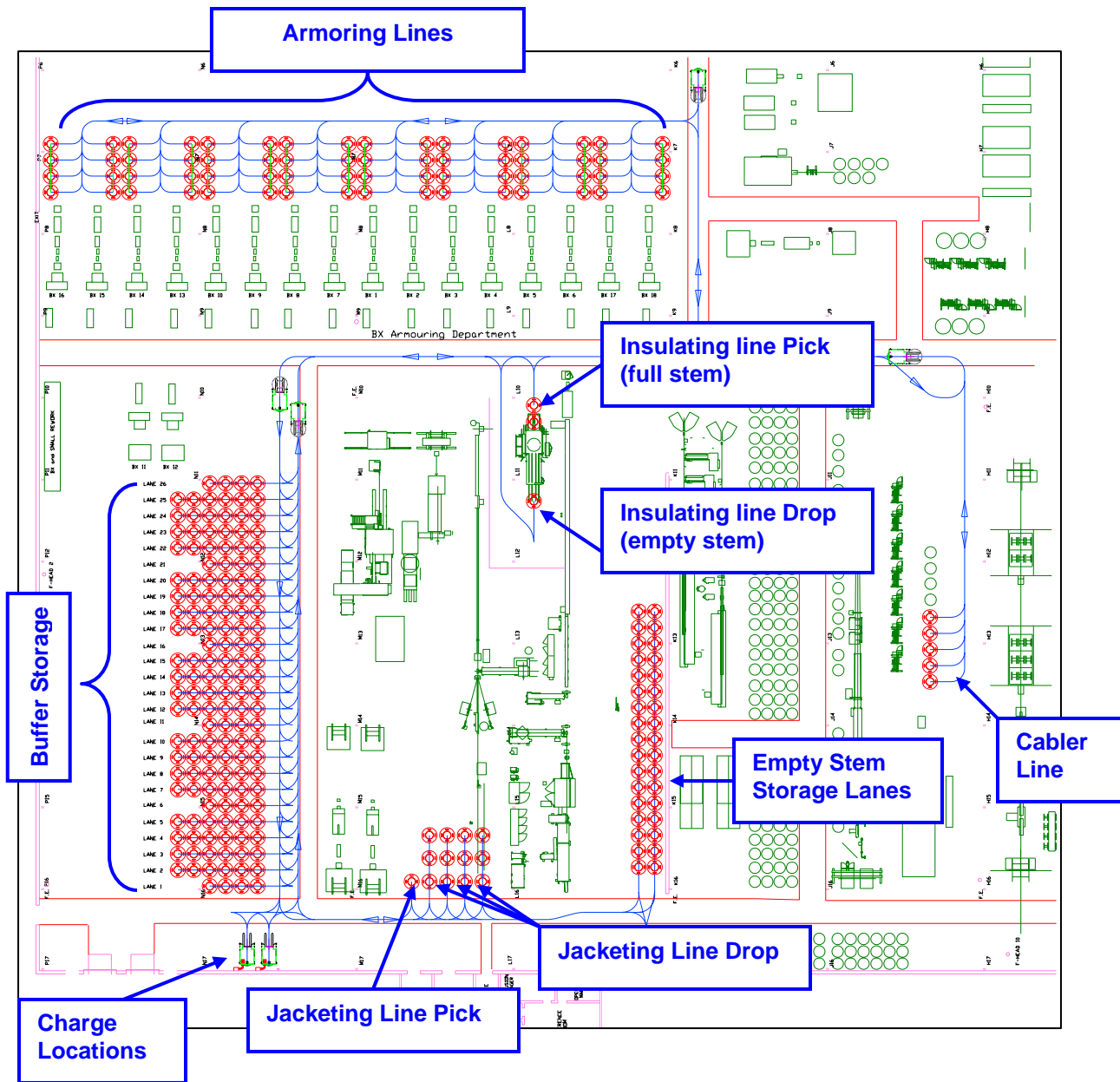


**SGV with empty stem**

**Benefits**

- Improved material flow with automated material transport
- Enhanced production efficiency allowing Nexans to meet increased demand
- Reduced costs with safe, methodical handling of loads

# Plant Layout



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