

Rail and Cradle Drive System



SGV transports missile through factory

Features

Number of Vehicles:	2
Vehicle Type:	(1) 24' Rail SGV3000 (1) 10' Rail SGV3000
Load Description:	Product/Rings/Cradles
Industry Description:	Missile Systems
Guidance Method:	Laser
Vehicle Capacity:	(24') 10,497 lbs (10') 2,888 lbs
SGV Host Controls:	SGV Manager – Windows XP
Battery Charging Method:	Charging Stations

Benefits

- Significantly reduce pallet and product damage
- Inventory is tracked throughout the system
- Flexible solution for plant's changing production demands
- Safe, reliable delivery of pallets
- Exceeded financial targets generating a 37% ROI based on labor savings

System Description

The SGV System operates 24/7 and facilitates the loading, transport, and off-loading of sub-assembly components, work-in-process, and finished goods for the Standard Missile Extended Range products at a new facility. The SGV system interfaces with static stations located within the new factory and two automatic battery charging stations.

The system computer monitors the battery levels and sends the SGV to the battery charging area when its battery level becomes critical.

The SGVs move products and/or tools between stationary locations within the facility. The vehicles incorporate a docking system on each side of the SGV, space and power provisions for third party hardware to support AGV interface with RRMIF stations, and accommodations for the Standard Rail and Cradle Drive System. Each SGV is also equipped with the customer-designed deck stiffeners, off-board automatic charger, and on-floor charge shoes.

Load handling attachment "Rail System" and "Docking Mechanisms" are installed in the Rail SGV3000.



Rail SGV3000 with hydraulic lift cylinders

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