

GENERAL MOTORS CORPORATION

Doraville, GA

North American Operations Oklahoma City, OK

Worldwide Purchasing Warren, MI

Description

SI Cartrac® Body and Assembly Transport Systems used to transport automotive bodies through framing and robotic re-spot welding operations at General Motors' assembly plants in both Doraville, Georgia and Oklahoma City, Oklahoma. At Doraville, SI had responsibility for both the Control System and Installation of the Cartrac® equipment.



Equipment provided includes:

Doraville

- 2,800 ft.. Cartrac® Conveyor
- 28 Precision stations ($\pm .005''$)
- 64 Non-Precision Stations ($\pm .060''$)
- 19 Turntables
- 10 Horizontal Transfers
- 2 Drawbridges
- 82 Precision Carriers
- 6 Removable Tracks
- 19 Crossovers

Oklahoma City

- 2,000 ft. Cartrac® Conveyor
- 44 Precision Stations ($\pm .005''$)
- 44 Non-Precision Stations ($\pm .060''$)
- 7 Turntables
- 2 Horizontal Transfers
- 83 Carriers
- 4 Drawbridges

The Challenge

- * Material handling system for vehicle underbody assembly.
- * Provide a low maintenance and reliable system
- * Provide controlled acceleration and deceleration and maintain accuracy
- * The system required state of the art controls to replace old AGV system.

The System Solution

- * 36 " heavy duty Cartrac system
- * Lower Maintenance along with high reliability (99.9 % up-time)
- * Smooth acceleration & deceleration with $\pm .005''$ accuracy.
- * Short Installation cycle (8 weeks)



**PRODUCTION &
ASSEMBLY SYSTEMS**

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