

# NEWS from:



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New Product Information—For Immediate Release

## **If at first you succeed, then try, try again.**

*Creform did just that with an AGV for a repeat customer that handles around the clock operation.*

Greer, SC—Creform Corporation has designed and built a new custom AGV system utilizing its FH-B50066 bolt-on AGV drive, single-directional unit. The system features two drive wheels--one located toward the front and a second toward the rear. Each end independently follows the guideway for the accurate and consistent travel necessary for smooth conveyor transfers. The system was built for an automotive powertrain supplier and includes three Creform AGVs used by the company to support its production line. It was built with detailed requirements necessary to support the customer's process equipment for around the clock operation.

The AGV, part of the plant-wide use of Creform AGVs, has overall dimensions of 67" L x 46" W x 57" T with a conveyor transfer height of 30 in. The conveyor area is 26 in. wide and 65 in. long and can carry up to 1455 lb. (660kg) load capacity. It can travel at speeds up to 50 M/min and along an approximate 120 ft. long magnetic tape guide. Floor positioned RFID tags are used for the control of speed and obstacle sensor views.

The unit essentially acts as a transfer vehicle between conveyors at multiple manufacturing points and features a powered conveyor deck for automatic load transfers. A clear plastic cover over the conveyor deck helps keep parts being carried clean. Mechanical load safety-stops rotate down when pulling into the conveyor stations to allow transfers. Gravity causes them to rotate back up when leaving the transfer point to ensure that the load is secure during transport.

Photocells on the AGV's conveyor deck are used for load control functions and serve to verify that the load is secure during travel, as well as used for slow-down and stop functions. Any load shift is detected and will stop the AGV. Optical communication

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## **New Creform AGV...2/ with photo and caption**

*Embedded photo is for reference only. Hi-res photo is attached as separate file.*

devices coordinate the conveyor operation between the AGV and stationary floor conveyors. The AGV features radio communication to interface with the traffic management system to keep the system moving efficiently. The unit features a heavy-duty fabricated steel base for strength and rigidity.

The unit incorporates a 24-volt system, powered by two 12V AGM batteries. The opportunity charging system, activated by photocells, minimizes need for the user to manually change batteries. The batteries are automatically charged each time the AGV pulls into the transfer station along the route. No human intervention is necessary.

Safety category 3 features on the AGV includes a safety circuit to cut power, audible warning device, flashing light, E-stops, LED light band along both sides of the AGV and a laser scanner on both ends of the AGV. An HMI touch screen is used for user and maintenance interface with an operator screen positioned at the top of the AGV control box.

The Creform System is used to create an array of material handling and efficiency enhancing devices and is a proven component in continuous improvement and Lean Manufacturing programs. The company partners with customers in developing and implementing these programs.

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Visit [www.creform.com](http://www.creform.com) for additional information regarding Creform Corporation and its products.



Caption CRE-654: Creform AGV with single conveyor deck.