



**Quebecor World**  
**Dyersburg, Tennessee**  
**Bindery Plant**

## Commercial Print Application

### Description

Tugger shuttles trailers of palletized catalog Signatures from the pressroom through a connecting tunnel to a Finishing Module.

The Host Computer will direct the Narrow Aisle Vehicles to retrieve the signatures from the tugger and deliver the pallets to either storage or the bindery. The systems will also move finished goods to the wrapper / strapper room or move wrapped goods to finished goods storage.

The entire fleet of vehicles can make over 1800 moves a day and handles up to 472 orders concurrently. It has increased the speed of load consolidation and truck loading by 15%, and increased productivity.



### Features

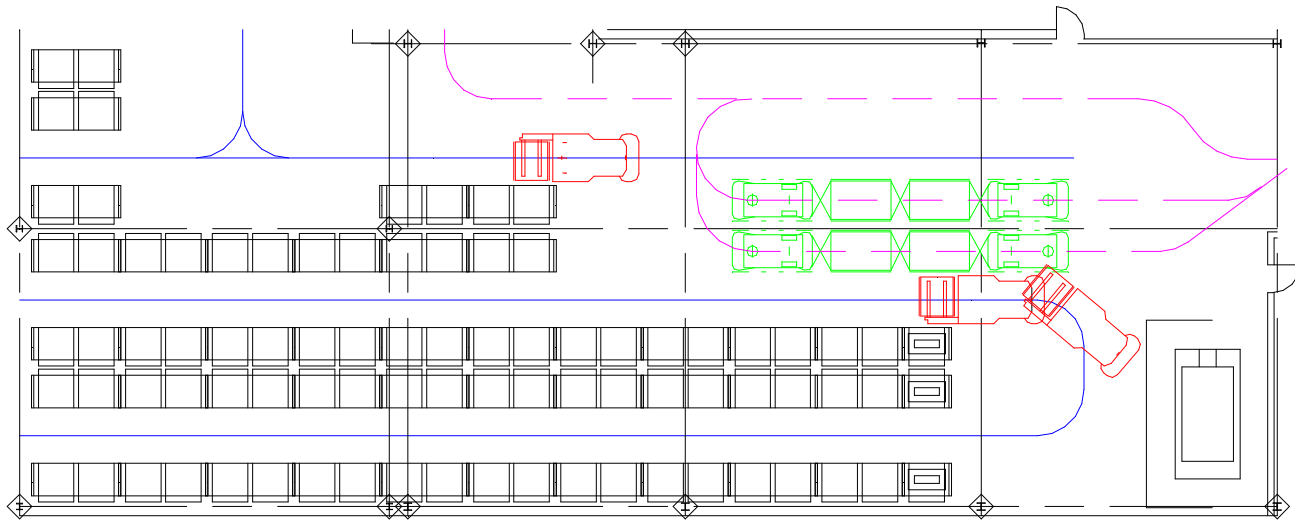
Date Installed:	1996
Vehicle Type:	Narrow Aisle Vehicle (NAV) & Tuggers
Number of Vehicles:	11 NAVs & 1 Tugger
Application Description:	Catalog Signatures and Finished Product Transportation
Industry Description:	Commercial Printing
Guidance Method:	Wire & Laser
Load Description:	Pallets 2500 lb (1130kg)
SGV Host Controls:	IBM RSC 6000 with Failover



### Benefits

- Reduced Labor Costs
- Reduced Fork Truck Traffic increases Safety
- Quick response to Product Handling needs saves time
- Automated Pallet Replenishment increases efficiency
- Minimal System Supervision
- Optimal Uptime and Maintainability

## Partial Plant Layout



### Narrow Aisle Vehicle Specifications

Drive Power	Electric
Operating Voltage	48 VDC
Battery Type	Lead Acid
Steering	Drive/Steer
Brakes	Electromagnetic
Lift Power	Hydraulic
Lift Mast	Dual Stage with Traverse
Elevated Height	25 feet <i>7.6 meters</i>
Lift Speed	5 in/second <i>13 cm/second</i>
Lift Capacity	2500 lbs <i>1100 kilograms</i>
Travel	Bi-directional
Travel Speed	500 feet/minute <i>150 m/minute</i>
Control	Automatic Wire Guided Manual – Operator Onboard
Wheels	Front Drive: 6" by 16" Diameter <i>15 cm x 40cm</i> Rear Dual: 6" by 10" Diameter <i>15 cm x 25 cm</i>

### System Specifications

- 2 IBM Rsc6000 Host Computers with Automatic Failover
- 2 Ethernet LAN connections
- 1 Report Printer
- 4 Radio Frequency Communications Modems
- 1 I/O Network to monitor Automatic Doors

### Safety Features

- Horn, Flashing Strobes, 3 Emergency Stop Buttons, Impact Sensing Bumpers, Front and Rear Object Sensors



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