

RR DONNELLEY



Spencer Press



Commercial Print Application

Features

Date Installed:	April 2000
Vehicle Type:	Hydraulic Reach Truck with 3.0m lift (120")
Number of Vehicles:	8
Application Description:	Signature and finished product transportation
Industry Description:	Commercial Printing
Guidance Method:	Laser
Load Description:	Pallets (wood, plastic, postal) 1360kg (3000lbs)
SGV Host Controls:	PC, Windows NT®, SGV Manager

Description

Pallets of signatures and finished product are picked up, transported, and delivered by SGV between the pressroom, WIP storage, binding/finishing, and shipping.

The Plant Inventory Computer communicates pallet pickup notification and location as well as delivery location to the SGV Manager. Communication between the SGVs and the SGV Manager is via a high-speed RF network.

The production process begins with signature pallets created in the pressroom. Pallets are prepared and placed in designated locations for pickup by SGV for delivery to the head of the put away aisle in WIP storage. The new WIP rack storage building has the capacity of storing approximately 10,800 pallets.

The SGVs pick up pallets of WIP signatures and deliver them to the finishing areas. In response to RF bar code scanner input from the finishing operators, finished product is picked and delivered to a buffer conveyor between finishing and shipping.

Benefits

- Reduced fork truck traffic increases Safety and makes work environment Quieter & Cleaner
- Quick response to product handling needs Saves Time
- Automated pallet replenishment increases Efficiency
- Minimal System Supervision
- Optimal Uptime and Maintainability
- No plant interruptions during installation
- Flexible solution for plant's changing production demands

Plant Layout

System Overview

1 SGVM PC Host Computer with cold backup:

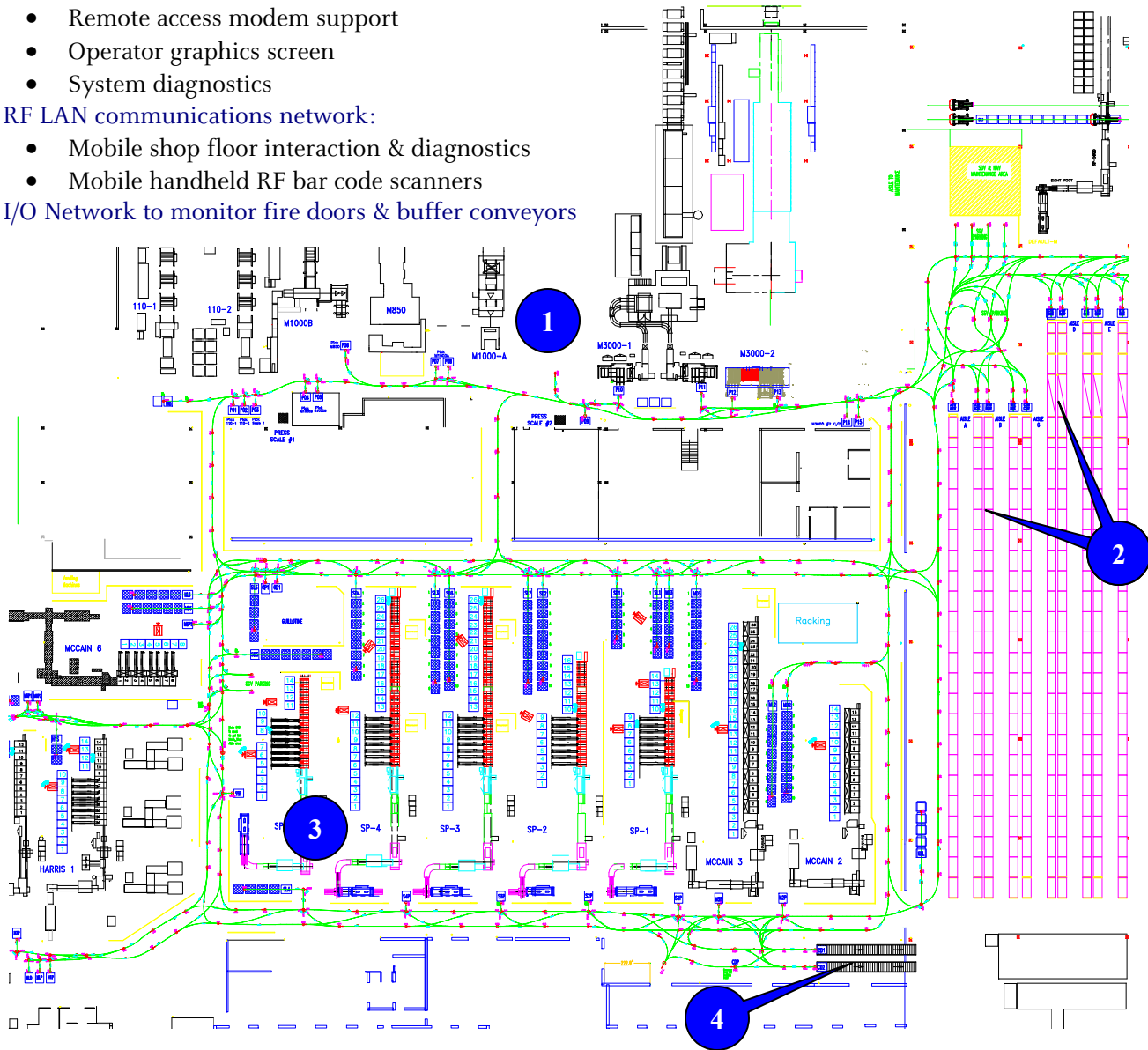
- Plant network LAN connection
- Remote access modem support
- Operator graphics screen
- System diagnostics

1 RF LAN communications network:

- Mobile shop floor interaction & diagnostics
- Mobile handheld RF bar code scanners

1 I/O Network to monitor fire doors & buffer conveyors

- 1 SGVs pick up at Press Lines
- 2 Drop and Pick at WIP Rack Storage
- 3 Deliver and Pick up at Binding Lines
- 4 Deliver to Shipping Conveyors



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