FMC Technologies
Automated Systems 400 Highpoint Drive, Chalfont, PA 18914 www.fmcsgvs.com
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Food Handling Application

Description

FMC Technologies automatically stores the product on pallets up to 2 meters high, in long storage aisles in "deepstack-fashion". Pallets are stored by the SGVs two pallets high and are organized in aisle according to date and type of production runs.

Then automatically, according to delivery schedules from the Warehouse Management System (WMS), product is pulled by SGVs and delivered to the shipping dock. Product is again placed in aisles in deepstack fashion on the floor in preparation for shipment.

The warehouse system stores 8500 Dudo pallets (half the size of Europallets: 600mm x 800mm).

The SGV uses a 2500Watt Sauer Danfoss RNA 35 Drive motor and electric ball-screw forklift 50mm/sec.

The SGV is protected front and rear with programmable PLS Infrared safety sensors and mechanical side bumpers.

The SGV Manager software is mounted on a PENTIUM IV PC server in a Windows NT environment.

The Warehouse Management System in use at the facility is "SYSKRON-LVS" – Oracle.

Features

Date Installed:	2003
Vehicle Type:	Counterbalance Fork Lift
Number of Vehicles:	4
Load Description:	Pallets of Coffee, Empty Pallets
Industry Description:	Food Processing, Warehouse
Guidance Method:	Laser Navigation
Vehicle Capacity:	800 kg
Vehicle Lift Height:	2300 mm maximum
Vehicle Speed:	1.5 m/second
SGV Host Controls:	Windows NT– SGV Manager
Battery Charging Method:	Opportunity Charging
Throughput:	88.5 transports per hour 2 pallets per transport

Benefits

- Significantly Reduce Pallet and Product Damage
- WMS interface guarantees the right product ships at the right time (FIFO).
- No plant interruptions during installation
- Flexible solution for plant's changing production demands
- Safe, reliable delivery of coffee and empty pallets

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Plant Layout and Detail

Total
Blocklagerkapazität
8272 Duo-Paletten

Anbruchpaletten
6 x 2-hoch
12 Pal.

3350

3100

Zwischen-
lagenmagazin

SGVs
Charging

Outbound Pallet
Conveyors

Empty Pallet
Conveyors

Pallets of Coffee: deep-stacked, two pallets high

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