

SGV DockPro

Automated Trailer Loading System



How It Works

1 The JBT Corporation SGV DockPro System goes to work when a command to load a trailer is generated. This command can be initiated manually by an operator using a touch screen or PDA, or automatically through an external computer system responsible for scheduling product shipments.



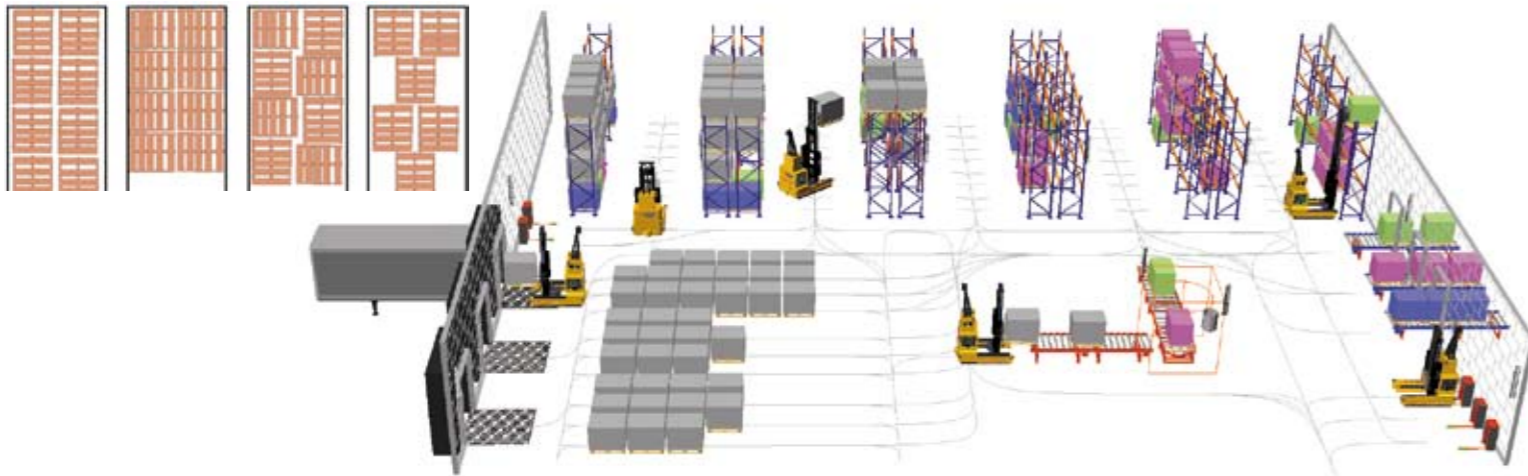
2 The SGV DockPro Host computer receives the schedule of outbound shipments and assigns specific SGV DockPro vehicles to efficiently complete the tasks. The SGV DockPro vehicles can retrieve loads from staging lanes, racking, block-stacked lanes, and conveyors and deliver them into the trailer with no human intervention.



3 SGV DockPro vehicles navigate using laser guidance which allows a unique blend of accuracy, vehicle speed, and flexibility, to easily adapt to changing plant/warehouse conditions. The system tracks all material movement and accommodates multiple trailer loading patterns.



SGV DockPro Accommodates Multiple Trailer Loading Patterns



Vehicle Features & Specifications

Navigational laser updates vehicle position 40 times/second

User friendly color touch screen

Recessed e-stop & start/stop push buttons

Hydraulic lift control for maximum speed

Removable covers for easy access to components

Safety wing provides protection for entire load width

Front safety bumper w/ programmable fields to maximize safety

Side safety bumper for protection during turns

Operator pendant for manual control

Load detection sensors ensure safe load pick-up and delivery

Single or double load handling capability

Large rear wheels to travel easily over levelers & expansion joints

Rear safety bumper with programmable field to maximize safety

Fork side shift for accurate load positioning

Vehicle Specifications

Load Capacity: 3,800lbs (heavier capacities available)

Vehicle Speed: Variable from 20 FPM to 250 FPM

Vehicle Weight: With battery 8,725 lbs.

Vehicle Specifications

Battery Power: 375 AH (8 hours); compartment sized to 750 AH

Ground Clearance: 3.5"

Stopping Accuracy: +/- 0.375"

SGV Dock Pro System Benefits

Improved Safety with vehicles which move in a predictable, controlled manner with safety sensors for obstacle detection.

Reduced Labor Costs with fewer people on the loading dock.

Reduced Product Damage with gentle handling of loads.

Reduced Trailer Wait Times with safe, reliable, and timely loading of trailers.

Improved Material Tracking is easy with computer controlled vehicles which communicate with plant controls.

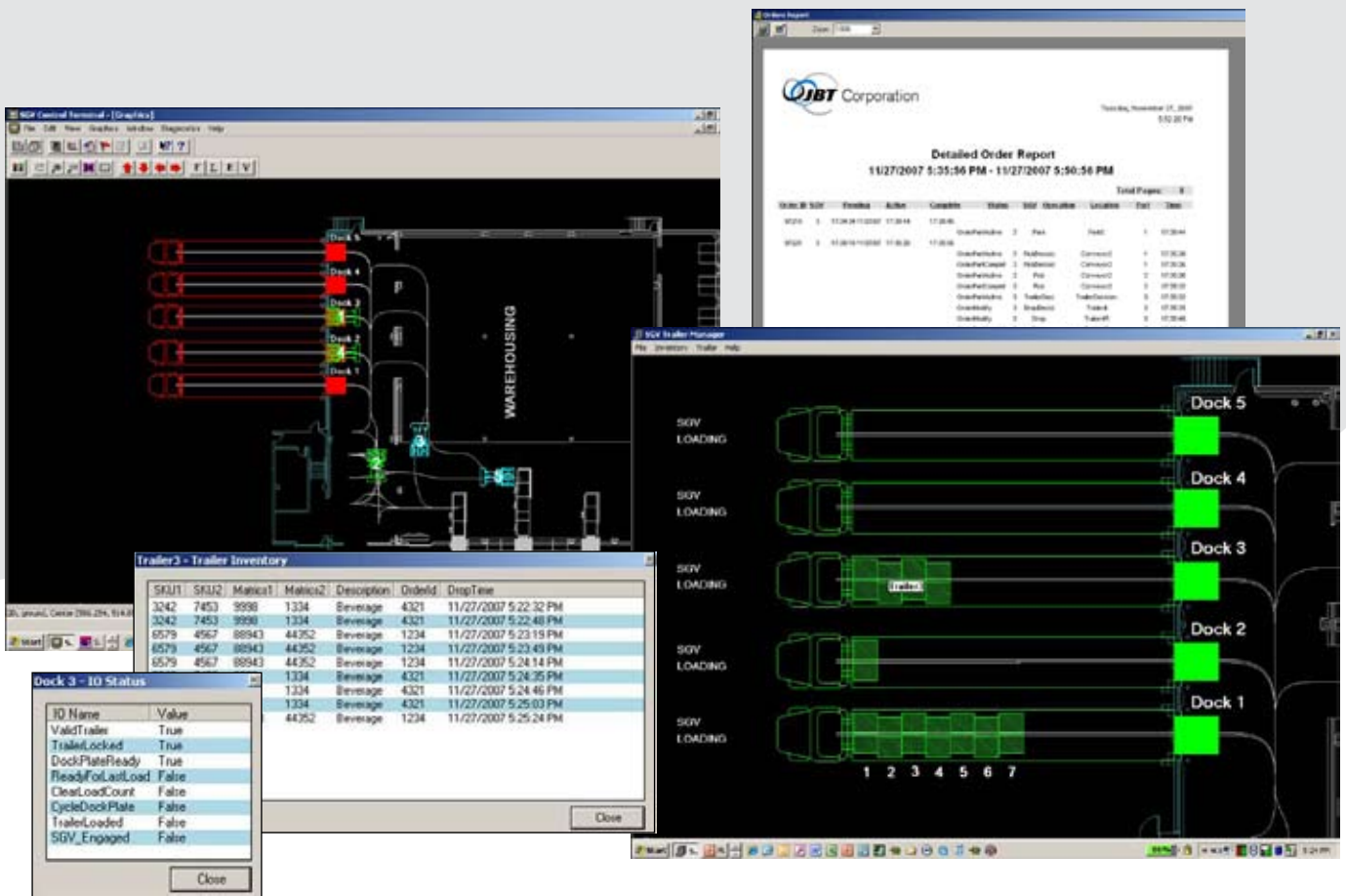
No Plant Modifications or Bulk Conveyors Are Needed and standard over-the-road trailers are loaded without changes to the trailer or loading dock.

SGV DockPro

Automated Trailer Loading Software

The SGV DockPro software coordinates all activities in the trailer loading process. As a Windows based software tool, it provides all information in a user-friendly, graphical format.

- » Communicates with customer production/logistics software to receive outbound shipment requirements.
- » Monitors entire system in real time including vehicles, dock interlocks, and trailer inventory.
- » Controls and tracks all pallet movement.
- » Report Generator function provides detailed reports on product and system activity.



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