

Warehousing by SCM for you

20,000 Sq.ft warehouse of a Mobile tower manufacturing company



Client's requirements

- Our client had a special request
1. The warehouse must be near to our factory i.e. within 5 Kms
 2. As we transship on daily basis we need a big compound where trucks may park
 3. It has to be operated 24/7
 4. Tight security as equipment cost comes in crores
 5. Import shipments hence need clearance within 24 hours

Operations

Warehouse operations include:

- Receiving
- Putaway
- Storage
- Order picking
- Shipping

Process

- Driver check-in
- Assignment of dock door for truck arrival
- Documentation review
 - Transport document (B/L)
 - Commercial invoice/Packing list
- Cargo review
 - Piece count, proper packaging/labeling, weight, dimensions, damages, over/under

A photograph of a warehouse interior. In the foreground, there are large, stacked cardboard boxes wrapped in clear plastic. Several men are visible in the background, some looking at the boxes and others talking. The lighting is somewhat dim, typical of a warehouse. The right side of the image is overlaid with a blue semi-transparent box containing text.

Receiving Process Considerations

- Scanned receipt of goods into system or manually?
 - Does scan match existing order in the system
 - Manual input of information into system
- Completed order receiving process
 - Issuance of warehouse receipt
- Conditional receiving process
- Cargo rejection process
- Enable Putaway activities

Put away process considerations

- Unitization
 - Loose
 - Pallets
 - Slip sheets
 - Totes/bins
- Putaway for storage or immediate shipment?
- Direct Putaway (random location)
- Directed Putaway
- Batched Putaway



Putaway location decisions

- Shared pallet position
- Single product pallet position
- High volume
- High value
- Hazardous Materials
- Perishables
- Scanned or manual location identification
 - License plate



Storage Process Considerations

- Long-term, medium or short-term storage?
- Floor storage vs. pallet positions
- Merchandise stackability
- Type of location
 - Pallet position
 - Bins
 - Shelves
 - Gravity racks

Storage locations by usage

- High volume movers closest to dock doors
- Slow movers towards the back, higher pallet positions
- Storage by ABC classification
- Storage by accounting policy
 - LIFO vs. FIFO
- Cycle counts
- Physical inventories



Order Picking Process Considerations

- Minimum order quantities
 - Pack Optimization (e.g. order by full pallet only)
- Pick task simplification
 - Stock-to-picker automation (conveyors etc.)
 - Shorter walking distances for pickers

Order Picking Process Considerations

- Single order picking
- Order batching
- Zone picking
- Pick sequencing
- Scanning technology
 - “Fool-proofing” of orders



Shipping Process Considerations

- Domestic vs. international shipment
- Mode of transport
 - Truck, rail, air, ocean
- Cargo characteristics
 - Fragile
 - Perishable
 - Hazardous Materials
- Voluminous vs. dense cargo

The background of the slide is a photograph of a warehouse interior. On the left, there is a large, dark, industrial door. To the right, tall metal shelving units are visible, filled with various items. In the foreground, a person is partially visible, working with a large white object, possibly a bag or a container. The overall lighting is somewhat dim, typical of an industrial setting.

KPI's For Warehouse Operations

- Total number of inbound receipts
- Total number of trailers received
- Number of cases received
- Total lines received
- Number/percentage of incomplete orders received
- Number/percentage of orders with documentation errors received
- Total labor costs (overtime)

The background of the slide is a photograph of a large warehouse interior. The ceiling is high with a complex network of white steel trusses and several large, rectangular fluorescent light fixtures. The floor is a smooth, light-colored concrete. In the foreground and middle ground, there are stacks of wooden pallets and some blue plastic crates. The overall atmosphere is industrial and well-lit.

KPI's For Warehouse Operations

- Total number of outbound orders picked/shipped
- Total pallets/cases/cartons picked/shipped
- Total lines picked/shipped
- Number/percentage of non-conforming orders
- Percentage of on-time orders
- Number of back orders
- Total labor costs

KPI's For Warehouse Operations

- Total number of active SKU's
- Total number of locations with correct SKU, quantity, date and lot I.D.
- Total number of locations audited
- Total warehouse damage or theft

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Thank you

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