DESIGN SYSTEMS, INC.
Manufacturing Engineering & Consulting

Manufacturing IT Solutions

Yard Management   **Solution Factsheet**

Overview

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Management of work-in-progress or finished product storage (typically referred to as Yard Management) is a critical link in the manufacturing chain.

Product within storage represents high value inventory which ultimately must be processed or shipped to realize its value potential. For that reason, an efficient use of storage is a must for maintaining profitability and reducing excess inventory.

Additionally, inefficient yard management can adversely affect delivery schedules, risking reputation and profit.

Breakdown

Whether work-in-progress or finished parts, control of product flow between the production lines and the storage facility can be challenging. Efficient management of the location flow between production, rework and storage can eliminate unnecessary delays and improve adherence to schedules.

Managing actions and rework enables easier planning of these tasks, faster processing and results in a significant improvement in adherence to schedules. Last-minute changes can be planned and documented in an orderly fashion.

Performing product movements in a structured and orderly manner minimizes lost time that can occur by unnecessary travel paths of the transport operators and supports effective handling of product in the yard.

"BOTTOM-LINE" RESULTS

- Improved Inventory Control

- Improved Adherence to Schedules

- Reduced Throughput Times

- Faster Drop-Off and Pick-Up Times

- Orderly Use of Storage

Our Solution

Yard Management is part of our new line of Manufacturing IT Solutions. Built on proven, world class technology, these solutions offer off-the-shelf functionality designed to target the typical challenges encountered in manufacturing.

The technologies are highly scalable, cost effective and can be seamlessly integrated into new or existing processes with great ease.

Our Yard Management Solution allows you to take control of the storage and retrieval of work-in-progress and finished product within the manufacturing facility.

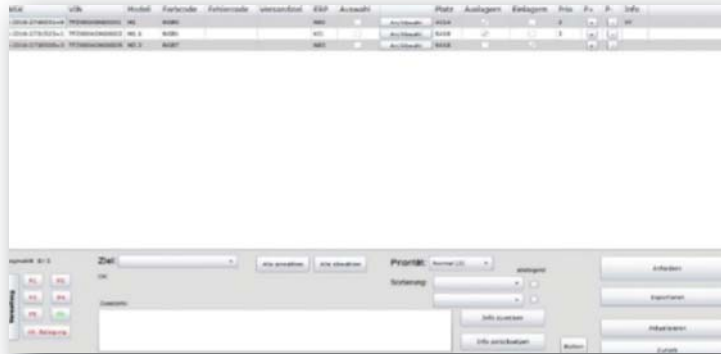## DSIDSC.COM

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Yard Configuration

Configure and display an exact replica of the storage yard

Yard configuration allows for the creation of a virtual yard in 1, 2 or even 3 dimensions representing linear storage, area storage or multi-level storage.

The visualization screen displays the occupancy status for each defined storage space. For storage spaces which contain product (occupied), the screen can display the details of the product located within the storage space such as order details, status and scheduled delivery. These displays are fully customizable based on the needs of the user.

Transaction Control Center

Provides access to all scheduled product movement transactions

The Transaction Control Center screen is the centralized workplace for product movement planning. From here, the planner can add, view and edit the planned transactions. Transactions can be manipulated, re-sequenced, edited or deleted according to the moving requirements.

Within the Yard Management solution, rules can be created to allow a more structured approach to product storage. For example, a rule could be generated which determines a specific area for product which is due to be expedited, which in turn can lead to a faster and more orderly retrieval of the product once transport is available.

Mobile Application

Supports delivery and retrieval operations

Operators who perform product movement within the yard are equipped with Handheld Data Terminals (HDT) displaying a product movement screen for worker guidance. This screen displays transport orders for execution and enables the operator to confirm the execution.

The Yard Management solution also supports vehicle management. This special case use differs from typical transportation in that the operator accompanies the vehicle in only one direction of the transfer and hence offers the opportunity for optimization by minimizing the travel path for the operator between vehicle pick-ups.

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