



# DESIGN SYSTEMS, INC.

## Manufacturing Engineering & Consulting

### Manufacturing IT Solutions Overview Quick Reference Guide

Today's manufacturer faces a number of challenges. With increasingly complex processes and the need to stay competitive, goals such as increasing productivity and minimizing costs can seem daunting.

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Manufacturing IT can play a significant role in realizing the challenges of the modern manufacturer. It can help optimize production through increased visibility and control of the manufacturing process. This overview breaks down the major building blocks of Manufacturing IT and identifies the tools that address these common challenges.

### The Solutions

#### Picking and Kitting

Picking and Kitting help with increasing efficiency and eliminating errors within logistics operations. Technologies include: Paperless Kitting Screens, Pick to Light, Pick by Voice, Sequence Car & Reverse Sequence Picking, and Picking Path Optimization Tools.

#### Plant Visualization and Alarm Monitoring

Plant Visualization and Alarm Logging gives you the ability to not only view but analyze the production process. This solution provides measurable metrics that can help drive more effective performance and reduce costs. Technologies include: Visualization Screens, Production Reports, Maintenance Reports, Process Specific Real-Time Screens, and Historical Data-Mining and Analysis Tools.

#### Work Instructions

Work Instructions and Quality Control Solutions can be extremely beneficial when looking for a way to help eliminate errors that arise due to complex and highly variable work activities. Technologies include: Work Instruction Screens, eChecklist Screens, Material Checks, and Zone Quality Check Functions.

#### Inventory Management

Effective logistics operations can minimize waste in material inventory, reduce the risk of downtime through material starvation, reduce material footprint within production areas and even enhance quality and reduce cycle time by transferring material selection operations to within the logistics areas.

#### Genealogy and Build History

The manufacturing facility is a complex environment with one end goal – to produce product according to the needs of the consumer. These Order Management functions are designed to coordinate the various operations within the facility to insure a timely and high quality delivery of the desired products.

#### Maintenance Support

Of all the sources of waste in the manufacturing environment, unplanned stoppages represent one of the largest and one of the easiest to treat. Providing detailed real-time information can create a faster response and hence a faster remedy. Historical data analysis aids continuous improvement processes. Reactive and Planned Maintenance management creates discipline in remedial activities. Technologies Include: Alarm Annunciation and Alerts, Reactive Maintenance Management, Preventative Maintenance Management, Integration with Maintenance Systems, and Continuous Improvement Reports

#### Error Proofing

Product variability, manual operations, high complexity and limited time all mean that assembly operations are one of the key areas where production enhancements can be realized.

#### Yard Management

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. Technologies include: Yard Configuration, Transaction Control Center, and Mobile Applications.

MANUFACTURING IT SOLUTIONS OVERVIEW



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