

WORLD CLASS MANUFACTURING (WCM) - The Next Step Beyond "Lean"

Lean manufacturing means different things to different people, but the net result is the reduction of waste - in time, money and space - in the manufacturing environment. Once a lean implementation strategy is embarked upon (by definition it is never complete, as continuous improvement is just that: continuous), the next step beyond lean encompasses more than the just the manufacturing floor, it links that manufacturing floor to the entire enterprise (ERP) from the PDM (Product Data Management), MPM (Manufacturing Process Management) and the MES (Manufacturing Execution System) - the "What, How and When" of lean for a truly World Class Manufacturing.

WORLD CLASS MANUFACTURING

“WHAT” **PDM**
PRODUCT DATA MANAGEMENT

- CAD
- PLM
- eBOM

“HOW” **MPM**
MANUFACTURING PROCESS MANAGEMENT

- SCALABILITY
- TRANSPORTABILITY
- MANUFACTURING PROCESS PLAN (mBOM)
- TIME STANDARD
- RESOURCE REQUIREMENTS
- PRECEDENCE
- WORK INSTRUCTIONS
- PLAN FOR EVERY PART (PFEP)
- STATION LAYOUT AND SPACE ALLOCATION

“WHEN” **MES**
MANUFACTURING EXECUTION SYSTEM

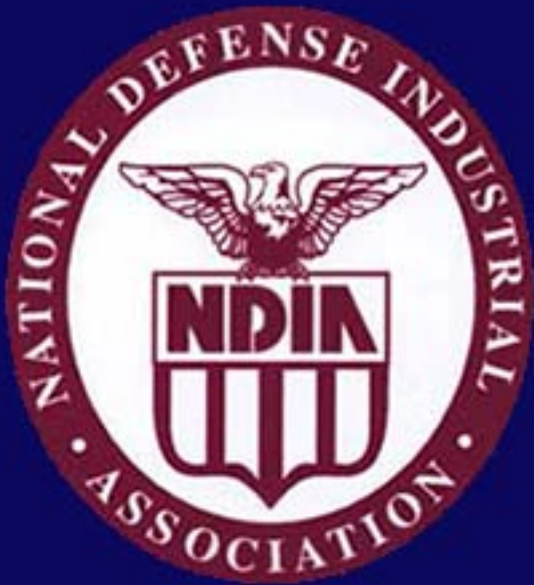
- PRODUCTION MONITORING
- PART TRACKING
- PRODUCTION REPORTING
- PRODUCT TRACEABILITY
- SCHEDULING & REPORTING
- EQUIPMENT UTILIZATION REPORTING
- DOWN TIME ALARM & REPORTING

NDIA Michigan Defense Industrial Base Expo

Plan on visiting Design Systems, Inc.'s booth at the [NDIA Annual Michigan Defense Industrial Base Expo](#).

The expo will be held at the Macomb County Community College - Sports and Expo Center on May 18th and 19th.

Design Systems will be located in booth number F3.



Please contact John Schneider at Design Systems, Inc. for more information - jschneider@dsidsc.com, 248.489.4300 x 2657.



AEROSPACE Manufacturing-Engineering Support

Design Systems, Inc. is supporting the Aerospace industry with one of their greatest challenges: converting the culture of low volume research and development operations into a high rate production operation. The higher rate production operations require additional planning and a skilled execution team. The requirements of high quality, a safe production environment and meeting their customer's schedule must be maintained. DSI has over 25 years of experience with high production rate manufacturing solutions and skills to support the aerospace industry.

About Design Systems, Inc.

Design Systems is a full service manufacturing engineering and integration firm, specializing in cost effective solutions to what occurs on your manufacturing floor or on the operations level of your facility. From greenfield to brownfield and everything in between, we examine the unique issues you may encounter to determine the best solutions to meet your needs.

With a staff of over 250 engineers and technicians, DSI has a broad range of core engineering competencies with capabilities in both 2D and 3D design, line balance, material planning, discrete event simulation -Unigraphics, Catia, AutoCAD, Factory Cad, Solid Edge, AutoMod, Proplanner and Inventor 3D to name a few.

Our World Class Manufacturing Engineering approach addresses all aspects of your facility's operational level including conveyance systems, paint systems, coating systems, process ventilation, structural steel and platforms, electrical and controls systems, discrete event simulations, Manufacturing Execution Systems (Operations Level to MES to MRP interfaces), Industrial Engineering and processing, ergonomics and Lean Material Strategies (LMS).



DSI Headquarters in Farmington Hills, MI

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