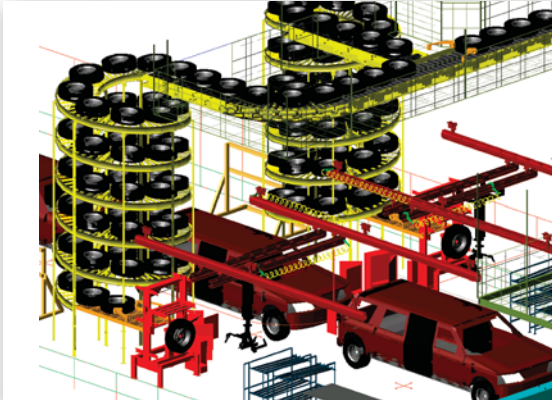


DESIGN SYSTEMS, INC.

Specializing in Manufacturing Process Design & Integration

3D Design is reality in Design Systems, Inc.

Design Systems, Inc. uses a broad suite of 3-D design software, including, to name a few, CATIA, Unigraphics, Solid Edge, AutoCAD, FactoryCad. Visualization and animation software include: UGS Teamcenter Visualization Quality and 3-D Studio Max.



Work Cells/ Workstations

From the 3-D layout model, any workstation or cell can be isolated allowing:

- Identification and study of the workstation and it's environment, including carriers, racks, tools, rails, etc.
- Analysis of operator workflow and packaged materials within the work cell.
- Confirmation of work elements required within the workstation.
- Review and analysis of ergonomic issues.

Uses of 3-D Layout Design

- Exceptional presentation tool
- Interference Detection
- Coordination, and validation of tooling design / location
- Quick development of cross-sections
- Validation of service accessibility
- Operator training
- Visual management



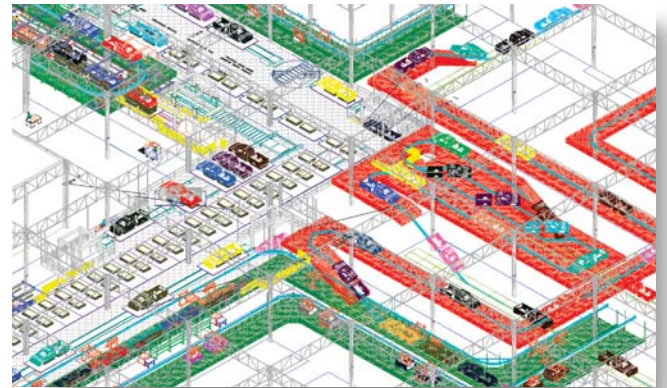
Facility Layout Development

Design Systems, Inc. applies its 25 years of experience with facility and material handling engineering to the development of comprehensive 3-D plant layouts.

- Native 3-D drawings conversions
- 2-D to 3-D drawings
- Field check to 3-D drawings
- Laser Scanning to 3-D drawings
- 3-D to AVI "Fly throughs"

Development of 3-D concept and Bid Package level layouts for facilities and conveyor systems.

- Development of material handling and material display layouts.
- Layout support using "Smart Object"



"BOTTOM-LINE" RESULTS:

- Error Reduction
- Interference Resolution
- Clarity Through Visualization
- Cost Reduction By:
 - Design Optimization
 - Ease of Change Management
 - Team Integration and Coordination
 - Decision tool for Management

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