



# DESIGN SYSTEMS, INC.

## Manufacturing Engineering & Consulting

Excellence  
by Design

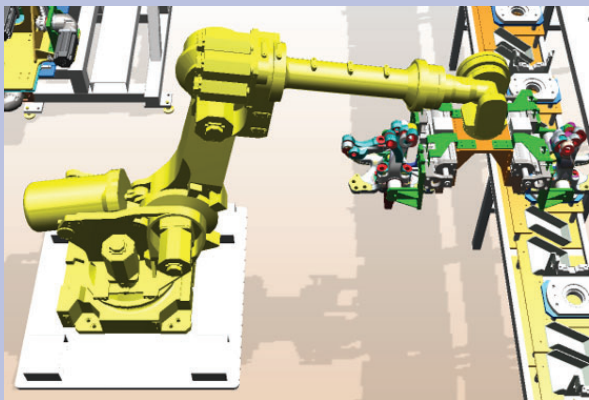
## Process Simulation Engineering

The ability to visualize the dynamics of workstations and assess their efficiency in terms of cycle time and layout design is a critical component of Process Simulation. Integrating 2D and 3D Resources as well as human models in a virtual environment and simulating work assignments provides a unique advantage to visualize non-value added activities and man-machine interaction. Process Simulation also allows for the virtual verification and assessment of product assembly sequences and product-plant interferences, leading to accurate and timely virtual evaluations of manufacturing and assembly facility design and production.

**Do it Right**

**The First Time**

### Real-World Applications



Transfer Systems, Conveyor Systems,  
Assembly Sequence, Fixtures, Pallets, Robots



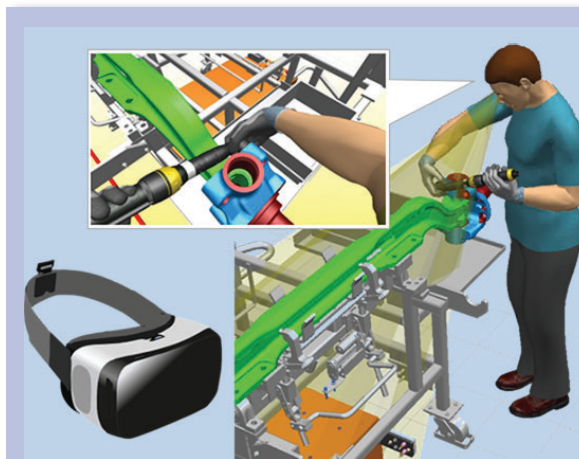
Static Work Stations, Kit Cells,  
Machine Load Stations



Dynamic Assembly Lines with  
Conveyors, Carriers, AGVs

### The DSI Advantage

- Determine if modifications to manual and automated stations will affect cycle time
- Animated representation of your system to detect any interferences
- Ability to test “what if?” scenarios
- Design station platform heights to suit your environment requirements
- MODAPTS IE time integration and man-machine interaction
- 2D/3D layout / BIM integration and exporting capabilities
- Point cloud integration
- Line optimization by simulation to determine bottlenecks
- Ergonomics and golden zone analysis for population anthropometry
- Virtual safety risk assessment utilizing virtual / augmented reality technology and 3D station buy-offs prior to capital expenditures



Operator's Point of View Analysis and  
Station Buy-offs Using VR/AR Application

## DESIGN SYSTEMS FAMILY OF COMPANIES

DESIGN SYSTEMS, INC.  
800-660-4DSI • 248-489-4300  
FARMINGTON HILLS, MI USA  
www.dsidsc.com

DESIGN SYSTEMS CANADA, LTD.  
519-944-8807  
WINDSOR, ONTARIO, CANADA  
www.dsidsc.ca

DESIGN SYSTEMS de MEXICO  
(011.52) 844-011-2621  
SALTILLO, COAHUILA, MEXICO  
www.dsidsc.mx



sales@dsidsc.com