CameLean™ /BiW

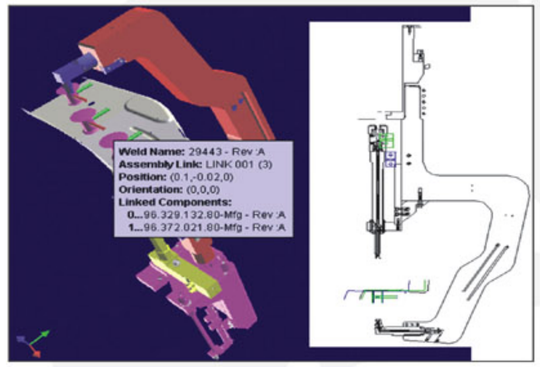
Making your Manufacturing more flexible and predictable

Facilitating optimized Body in White Programs with effective supplier collaboration

Today's Automotive Manufacturers are global multi-locational facilities that outsource upto 60% of their components to OEM suppliers. Collaborating with OEMs has become critical for faster time to market and higher cost efficiencies. CAMeLEAN's Body in White [BiW] is a scalable enterprise solution that offers concurrent engineering support and lets suppliers collaborate in planning, optimizing and managing BiW manufacturing processes. With its advanced fastener management, powerful line optimization and intuitive 3D Station Design capabilities, CAMeLEAN/BiW enables Automotive Manufacturers to integrate Product, Process and Resource data into a single BiW Process planning environment - ensuring a process plan of high quality which can be consistently repeated anytime, anywhere across the extended enterprise.

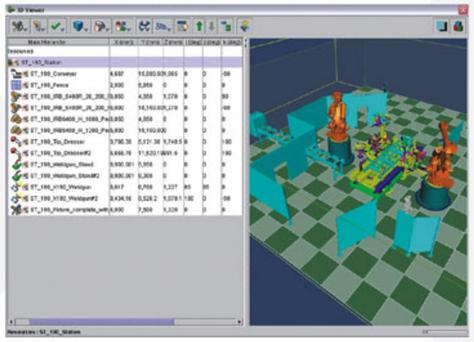
Fastener Management

- Define Fastener configuration and associate components
- Define the Process Plan from Bill of Processes [BoP] for an MBoM using templates or create from scratch
- Define fastener constraints [precedence, station, ..] & configuration
- Assign components to Process Plan activities
- Create weldgun from standard components and validate through interference checking
- Revise, synchronize, manage BoP with BoM including fasteners
- Visualize product status at each activity and for each configuration



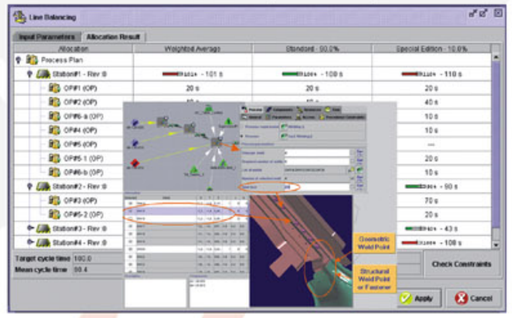
Resource Planning

- Define the resource structure from Bill of Resources [BoR] using templates or create from scratch
- Assign and configure resources required for each activity
- Design Welding Station, Line and position resources within them including accessories
- Visualize product and resource status by configuration
- Create and manage Resource structure revisions
- Interface with Plant Layout and Robotic Simulation software



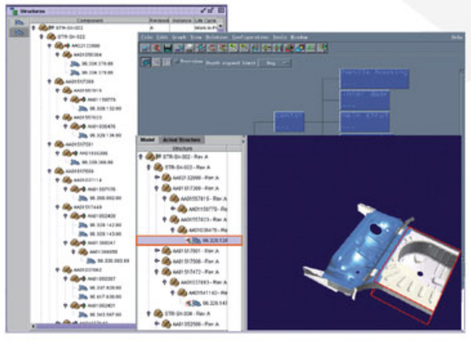
Line Balancing & Cycle Time Analysis

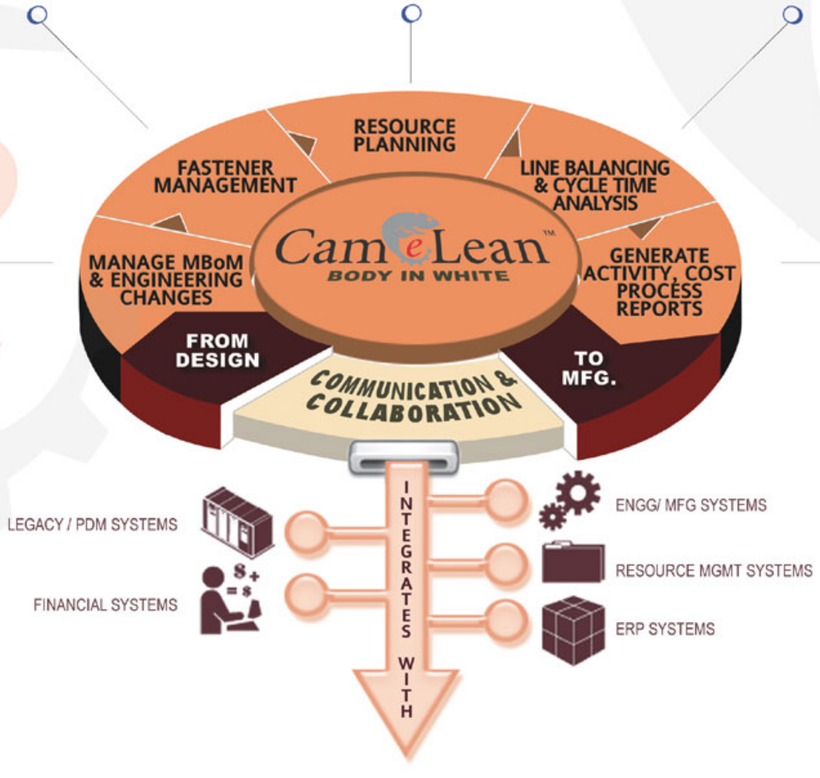
- Allocate fasteners to different resources in a station taking care of constraints and Line Parameters
- Balance the Line in terms of desired cycle times
- Analyze different resource plans for a Process Plan considering regional cost and volume perspectives
- Speedily analyze alternate fastener allocation options & optimize
- Ensure fastener accountability across all product configurations

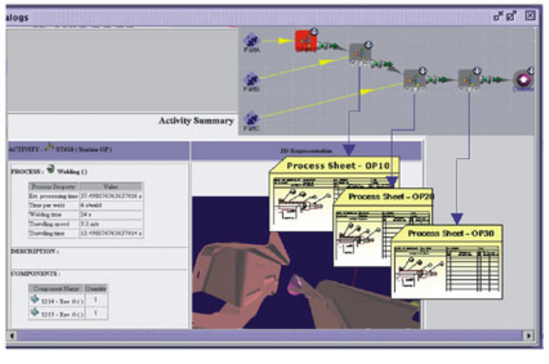


Manage MBoM & Engineering Changes

- Import EBoM from PDM or create it in CAMeLEAN
- Import Product configuration, parameter, fastener data from PDM or create it in CAMeLEAN
- Create MBoM from EBoM and automatically reconcile them
- Visualization of product by configuration
- Reuse manufacturing knowledge through libraries and templates





Generate Activity, Cost & Process Reports

- Generate Product Centric Reports in terms of the Product Mix, Bill of Materials, Part Accountability ..
- Generate Resource Centric Reports in terms of the Bill of Resources [BoR], work instructions, utilization ..
- Generate Process Centric Reports in terms of the BoP, component/resource requirements, process constraints..
- Generate Customized Reports based on special requirements