



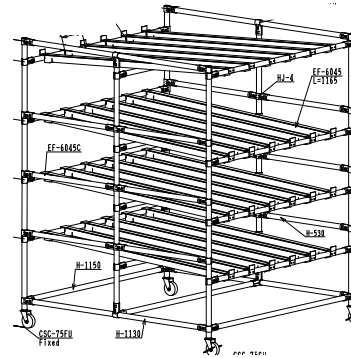
Material Handling Engineering

New Assembly Line Incorporates Lean Material Handling Operations

Client:
Heavy Truck Manufacturer

- Objectives:**
1. Support low volume, high complexity product with flexible material handling operations
 2. Minimize line side material using lean principles
 3. Develop material handling equipment requirements
 4. Implement station material display and kanban replenishment system

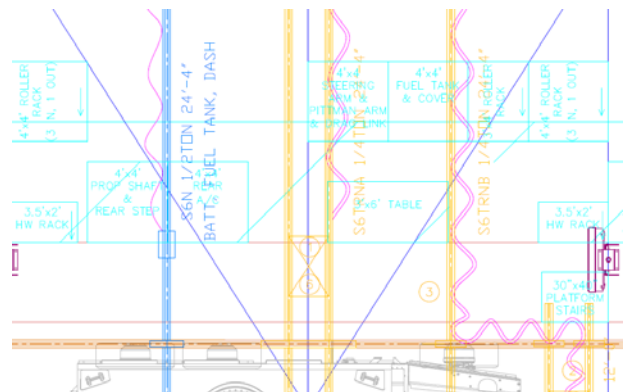
Project Description:
A new manufacturing layout was developed for an existing warehouse facility. Lean material handling planning was used to minimize in-station material and provide flexible, kanban driven material flow for this low volume, highly complex operation. Line display layouts were developed incorporating all material display equipment. New material handling equipment requirements were designed, purchased and installed to support improved throughput capability.



Material Display Racks

- Results:**
- Identified station parts, quantities and containers
 - Developed station material display layouts
 - Identified, ordered & coordinated installation of material display equipment
 - Planned & incorporated material docks, storage, flow & traffic aisles into plant layout
 - Developed pull system, part delivery process & mobile equipment requirements
 - Developed material handling labor requirements

Similar results were obtained in other plant launches



Work Station Material Display Layouts

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