Process Optimization & Material Flow Analysis

Client: Leading Auto Manufacturer

Platforms

- Factory CAD
- Factory Flow
- Windows XP

The Problem

The client is a manufacturer of a range of reliable, fuel-efficient vehicles of contemporary technology. It is involved in the design, manufacture and marketing of commercial vehicles, motorcycles, components as well as providing engineering solutions.

The client was setting up a new production plant & was looking at a solution that would provide the following:

- Analyze the process flow to estimate the material handling equipment requirement
- To visualize the material flow density at different locations of the plant
- To carry out the "what-if" analysis for various material handling equipment alternatives & its routings

Major Challenges that the client was facing were;

- Design plant to improve material flow at minimum cost
- Estimate the material handling equipment requirement
- Compare alternative layouts
- Evaluate cost, time and travel distance

The Solution

To overcome the above problems, Axcend worked with the customer to understand the complete requirement & based on the study provided a complete solution

- Product & Material Flow structure was constructed in Factory Flow
- Flow calculation & analysis carried out
- Estimated the number of material handling equipment required for each process
- Carried out Congestion Analysis

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Process Optimization & Material Flow Analysis

ROI

- Optimize material handling equipment cost, travel time & distances
- Reduce non-value added components before commissioning
- Optimize floor space, storage requirements and utilization

Salient Features

- Space computations & analysis
- Material flow visualization with congestion analysis
- Layout alternatives evaluation

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