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Manufacturing Engineering & Consulting

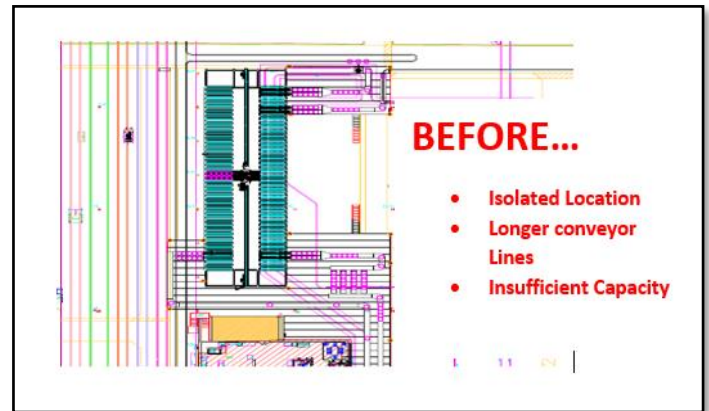
Material Handling Assessment of a Storage System ELECTRONIC APPLIANCE MANUFACTURER

Project Description

The main objective of this project was to provide analysis and insights to using an Automated Storage-Retrieval System (AS/RS) to store goods. The assessment included understanding the current manufacturing process of the electronic appliance manufacturing facility, review the future state manufacturing/ warehousing plan and review the feasibility of AS/RS.

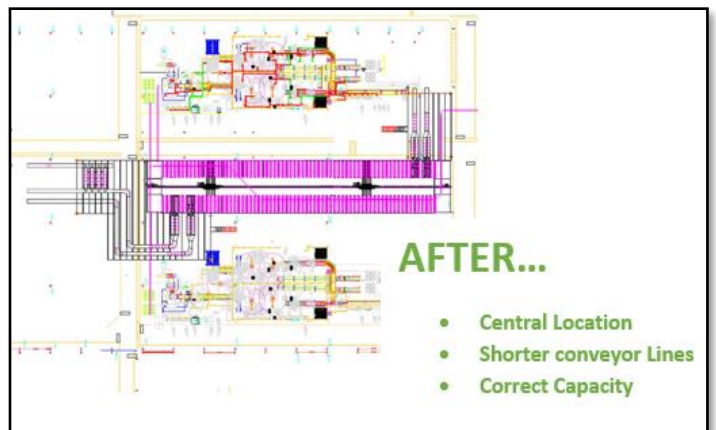
Client Objectives

- To assess the feasibility of the planned AS/RS.
- Gather data and observe the production processes.
- Determine the volume and correct capacity of the AS/RS.
- Identify the best location of the AS/RS in the plant.
- Establish the risks and opportunities associated with the project.



PROJECT OUTCOMES

- 3 different options of AS/RS with varying sizes and locations
- Multiple production plans were generated to ensure the system meets the needs of a variable production environment.
- Capacity calculations, driven by production data, determined the correct capacity of goods and suggested increasing the required capacity of the planned AS/RS
- Size calculations were carried out to determine the footprint and air space required for the system.



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