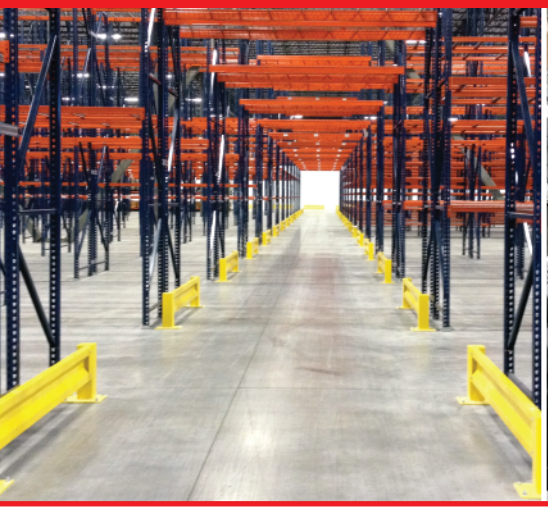
ETi

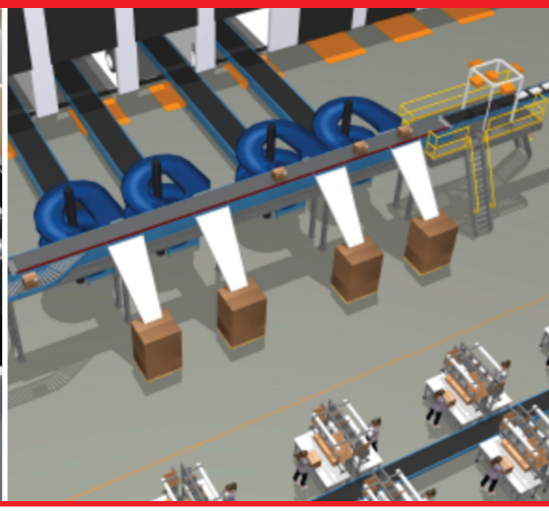
SMART *EDGE* CASE STUDY

SMART EDGE

New DC Sizing and Layout

A global leader in industrial machine parts manufacturing and distribution engaged ETi's Smart *EDGE* Advisory Services to assess facility constraints and optimize facility size and layout for a new DC. ETi's phased plan maximizes space, improves efficiency, and eliminates offsite storage while allowing for future growth and automation.





PROJECT OBJECTIVES:

The client recognized that the current facility has multiple constraints impacting the operational efficiency of its distribution and fulfillment business. ETi's Smart *EDGE* Advisory Services was engaged to provide an evaluation and recommendations to meet the following objectives:

- Provide right-sized dimensions of a new facility that would accommodate the current business with additional capacity for projected sales growth
- Design a layout and recommend the flow of materials for the new facility to improve efficiency
- Recommend improvement opportunities discovered in the evaluation

EVALUATION PROCESS:

The Smart *EDGE* Advisory team combined its industry expertise and the client's input to design the new facility layout through the following steps:

- Conducted thorough onsite observations, measurements, and interviews
- Collaborated with client to understand current pain points
- Analyzed inventory data and current storage strategies
- Presented various options for the client's input and selection

RECOMMENDED SOLUTION:

The Smart *EDGE* team designed a building size and configuration tailored to the client's objectives. The solution incorporated the following solutions:

- Eliminate offsite storage locations by incorporating needs into the new facility sizing and MHE
- Design initial footprint for floor level picking operations to allow for future vertical expansion
- Included special handling and storage required for some inventory in the initial construction
- Maintain layout flexibility for future automation if additional capital investments are pursued

PROJECT RESULTS:

The design of the facility and process flows include the following benefits:

- Recommended 260k sq. ft. facility design accommodates current production, future growth, and offsite inventory and packaging materials
- New facility layout eliminates multiple touches and excessive travel for order fulfillment
- Design consolidates two offsite storage facilities and corresponding operating costs
- Recommended material handling equipment leverages various configurations of racking, sortation system, and conveyors.
- Identified additional cost reduction opportunities, including potential automation solutions
- Provided a CAD drawing and material handling configuration for the next construction phase

Get the most out of your distribution center's potential.
Start your automation journey with Smart *EDGE* Advisory Services.

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