

Supply Chain Optimization Based on Advanced Planning and Scheduling Technology in Manufacturing Industry: A Case Study

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Abstract : The dramatic changes in the global economic situation have produced dramatic changes to companies' supply chain systems. A variety of opportunities and challenges make the traditional manufacturing industry feel pressured, and the manufacturing industry must seek a new way out as soon as possible. This paper presents a case study of the advanced planning and scheduling technology problem encountered by an electrical and electronics manufacturer. The objective is to seek the minimum cost of production planning and order management. Digitalization is applied to the problem, and the results demonstrate that significant production performances can be achieved in the face of the existing production of each link and order management systems to analyze and optimize. This paper can also provide some practical implications in various manufacturing industries. Finally, future research directions are discussed.

Keywords : advanced planning and scheduling, case study, production planning, supply chain optimization

Conference Title : ICLSC 2023 : International Conference on Logistics and Supply Chain

Conference Location : New York, United States

Conference Dates : April 24-25, 2023