A Scheduling based Backlog Reduction Method in CONWIP Production Systems

Abstract

This article develops a scheduling orientation backlog area reduction method for customer production planning in a CONWIP controlled production, considering a make to order (MTO)
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production system. This method can be applied in order to minimize the backlog area by changing the delivery sequences of orders. Changing in sequences causes changes in some order delivery attributes, such delivery lead time of a customer order that can prevent the tardiness in delivery lead time. This changes must be happened in a special period of time called work ahead window (WAW) to insure the production ability of orders that must be delivered in that period of time. One case study has represented in last section of the paper.

Reference


**Index Terms**

Computer Science
Operations Research

**Key words**

Scheduling
CONWIP
Customer order

production planning Work-Ahead-Window

Market driver production planning
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