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### 不同Supply-hub营运主体下的批量与成本比较研究

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### The comparisons of lot sizes and costs based on the different bodies responsible for supply-hub operations

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**摘要** 本文考虑了JIT环境下基于Supply-hub的供货模式,建立了制造商、Supply-hub和供应商的平均成本函数,并提出了分别由制造商和供应商负责Supply-hub营运及成本的生产与订货批量模型。结果表明,在Supply-hub适用的条件下,相比由制造商负责,供应商负责Supply-hub的营运及成本时,对供应商有利而不利于制造商,但整个供应链的总成本减少,通过供应商与制造商之间的协商和利益转移,可以使制造商和供应商的成本都有所减少,从而实现整个供应链的Pareto优化,此外,供应商距离Supply-hub越远,相比制造商负责,由供应商负责Supply-hub的营运及成本对整个供应链更有利。

**关键词:** 准时供货 集配中心 联合生产与订货 Pareto优化

**Abstract:** The supply pattern based on supply-hub under the Just-In-Time (JIT) environment is considered, and the average cost function of manufacturer, supply-hub, and supplier is established. Moreover, the production and order lot-size models of the supply-hub operation and cost, which manufacturer and supplier are responsible for, respectively, are proposed. The results show that under the condition that supply-hub is appropriate, it is more favorable to the supplier than to the manufacturer when the supplier is responsible for supply-hub operation and cost comparing with the manufacturer is responsible for, but the total cost of the supply chain is reduced. It is able to reduce the costs of the manufacturer and the supplier on certain level through negotiations and interest transfer, therefore entire supply chain is achieved Pareto optimization; Moreover, with the distance between the supplier and supply-hub is the further, it is more favorable to the supply chain when the supplier is responsible for supply-hub operation and cost rather than the manufacturer is responsible for that.

**Keywords:** JIT supply-hub integrated procurement-production system Pareto optimization

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