

# 康奈可配件仓库功能区布置优化研究

## 摘要

在现在社会物流蓬勃发展的时代下，仓库由起初只具备储存保管这一个功能转变为能够实现增值功能一体化（如具备包装、分类、加工、逆向物流等功能）的新型仓库。

与传统仓库相比，新型仓库更加注重经营上的收益。因此，在面对企业间的激烈竞争时，为了确保仓库系统能够高效、可持续的工作，仓库应当在物品流动、储备等过程中进行合理的布局，提高仓库内的工作效率和存储能力并减轻工作人员的作业负荷量。

本文以分析国内外研究现状为前提，阐述了仓库的定义和功能，结合康奈可配件仓库实际情况，分析各功能区之间物流量的大小，发现由于功能区布置不合理所出现的问题，最后利用 SLP（系统布置设计）法从物流关系、非物流关系以及综合相互关系这三个方面对仓库内的功能区布置进行优化，得到最终优化方案，从而使仓库运作更加合理有效。

**【关键词】** 仓库功能区；SLP；设施规划

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# Research on the optimization of the functional area layout of Calsonic's spare parts warehouse

## Abstract

In the era of the rapid development of social logistics, the warehouse which only had been used to store and preserve in the beginning is transforming into a new-style warehouse that can realize value-added function integration (such as packaging, classification, processing, reverse logistics and other functions) .

Compared with the traditional warehouse, the new-style warehouse pays more attention to operating income. Therefore, when it is in the face of fierce competition between enterprises, in order to ensure the warehouse system can be efficient and sustainable work, the warehouse should be have a reasonable layout in the flow of goods, reserves and other processes to improve the efficiency of the warehouse and storage capacity and reduce the workload of the staff.

This paper is based on the analysis of the present situation of domestic and international studies and it expounds the concept and function of the warehouse. Combining the actual situation of Calsonic's spare parts warehouse, this paper analyzes the amount of the logistics quantity between the functional areas and finds some problems because of unreasonable layout of functional areas. Finally, the SLP (System Layout Design) method is used to optimize the functional area layout in the warehouse from the relationship of three parts about logistics, non-logistics relationship and comprehensive relationship, and the final optimization scheme which makes the warehouse operation more reasonable and effective is obtained.

**[Key words]** Warehouse function area; SLP; Facility planning

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