

Industrial Research Project Title	The Improvement for Storage System of Final Product by Simulation Techniques
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Abstract

The aim of this project is to improve the storage system of final products by reducing handling time and cost of these products. The storage of these products is mocked and improved by simulation technique using the PROMODEL software.

After investigation the current situation, it is found that the main problems occurred by an unappropriated product grouping and space allocation policy. To solve these problems, the two possible solutions are subsequently approached. The first solution is to change the grouping policy of Fast and Slow Move Products (FMP and SMP) by employing "Value of Customer Ability Service". The second solution is an improvement of the space allocation policy, by separation the storage area between FMP and SMP in addition, the FMP should be next to production line and distribution area in order to reduce the material handling distance. The storage system model of final product is consequently created from collective data and factors. The PROMODEL program is used to simulate the final product storage area for FMP. As a result, an improved storage system can reduce handling time and cost from the previous system approximately 12.03 percents and 32.66 percents, respectively.

Keywords : Storage Systems / Product Grouping / Simulation