

Manussanun Phoolsorn 2014: Application of Pull System in Axle Industry.
Master of Engineering (Engineering Management), Major Field: Engineering
Management, Faculty of Engineering at Si Racha. Thesis Advisor:
Assistant Professor Sirang Klankamsorn, Ph.D. 141 pages.

The objective of this thesis is to study the application of pull system for axle industry. The study is to design the production kanban and to determine the factors affecting to the change of production kanban number. The steps of kanban calculation for axle industry comprise with 1) calculate the average customer demand 2) calculate working time of production department 3) calculate the kanban turnover and 4) calculate the kanban number , buffer stock and safety stock . In addition, the factors affecting to the change the production Kanban number are studied in which the factors compose of customer demand, Overall Equipment Effectiveness, number of safety stock and packaging standard.

The result of applying the kanban to withdraw the raw material and part is that the number of inventory shortage and number of work-in-process are reduced. The result from the study of factors affecting to the change of production kanban number by using the Analysis of Variance shows that the customer demand, Overall Equipment Effectiveness, number of safety stock and packaging standard have the impact on the change of production kanban number

Student's Signature

Thesis Advisor's Signature