

ABSTRACT

The jacquard card punching machine is a printer for jacquard cards pattern. Jacquard card is one of the important elements in the fabric production chain that is used in weaving process by fabric weaving machine. The problem that arise is when the production of jacquard cards by a punching machine has a low efficiency will result in the production of the amount of fabric that is also inefficient and automatically requires additional time in the fabric production process. With the intensity of demand for fabric that continues to increase then company is need to perform the production process efficiently, one way to improve the efficiency of jacquard card production is to eliminate non-value added activities so that the jacquard card production time will be more efficient and lead to increased efficiency of production of cloth. Product development using reverse engineering approach is considered appropriate because the approach is used if the machine to be developed is already exists so that the machine will become the initial reference for product development. From the development using reverse engineering approach will be obtained the concept of punching machine that can improve efficiency of the punching machine production. The proposed punching machine has one additional feature, the feature is integrated storage features with a punching machine and also upgrades from existing features to support the efficiency of punching machine production.

Keywords : Efficiency of punching machine, jacquard card, reverse engineering, redesign methodology