

ABSTRACT

Rumah Batik Komar is a companies engaged in batik production, Rumah Batik Komar founded by H. Komarudi Kudiya S.Ip., M.Ds and Hj. Nuryanti Widya in Bandung 1998. Coloring process on Rumah Batik Komar is divided into two ways: dyeing and gradation. Dyeing process is carried out by an operator who use the work table with shake mechanism. But there are some deficiency on this existing work table that makes the operator got a fatigue which can lead to MSDS (Musculoskeletal Disorders), moreover the deficiency from this existing work table is the shake mechanism that can make the color on the fabric is uneven, so the level of products defect is high. One of the solution is redesign this existing work table, like change the shape, measurement, or coloring mechanism. The new work table design is designed using the Ulrich-Eppinger product development stage through 3 stages: design, concept development, and system level design phase. The result of the products development is creation an improvement concept that can reduce work accidents caused by operator awkward posture, the selected concepts, where those concept is a way better than the existing table in term of the ergonomic to be measured, using RULA value or work mechanism so can decrease the products defect and quicken the production proces.

Keywords: Product design, concept development, design improvement, Ulrich-Eppinger, batik coloring table