

## ABSTRACT

KUB Segentar Alam is a group that in weaving fabrics typical of South Sumatra, among other songket, tajung, jumputan, etc. Preliminary research found several complaints from employees who feel less comfortable when doing their work, such as pain in the waist, too bowed head, pain in the buttocks, and back pain caused by a work chair is not ergonomic. This situation affects the performance of the employees. To improve employee chair, then performed an anthropometric study of the fit between employees with work chair that focuses on designing an ergonomic work chair in order to reach ENASE (Effective, Comfortable, Safe, Healthy and Efficient) and increase employee productivity.

Work chair loom created based on the desire of employees using the method of Quality Function Deployment. Dimensions of work chair made loom has a high 59 cm, width 50.3 cm pedestal, 32 cm depth, backrest height 57.5 cm, and 50.3 cm wide backrest. These dimensions are set based on anthropometric measures body weaving Natural Segentar KUB. From the analysis of the questionnaires Nordic Body Map, a reduction in the level of employee complaints on any scale, one of which is a scale of 1 (no pain). Complaints employees experienced no pain in the neck up and down before the work of 50% to 100% , in the waist of 0% to 100% , in the backs of 0% to 100%, below the waist at a 50% to 100%, and on the buttocks by 0% to 100%. After implementation of work in corporate seats, ENASE work can be perceived by employees and increased productivity by 0.1575 or 15.75%.

Keywords: Ergonomics, Anthropometry, Product Design, Quality Function Deployment method, Nordic Body Map, ENASE, productivity