

## **ABSTRACT**

*Mr Ong's tofu industry is a family business that produce two types of tofu, that is manohara and cutted tofu. Initial study found problem on tofu cutting process. This is caused by the previous tofu cutting toolt that's not ergonomic, and cause the process to be ineffective, since the cutting process can only be carried out one line (vertically or horizontally) at a time. It affect those worker who works at cutting division, makes them tired fast, which in turn affect the workers perfomance.*

*This cutting tool is the first design that is made specially for Mr Ong's tofu industry. The cutting tool is made based in type's size and worker's anthropometry using value engineering method. The dimension of the cutting tool is 60 cm long on each side, 3 cm thide, and 5 cm height. From the analysis using questionnaires with 30 items on subjectif tiredness, the average level befor implementation on pre-work condition is 77%, and after work, it become 88%. After the implementation, on pre-work condition, the average level decrease to 75,4% and the after work level decrease to 57,6%. After the cutting tool implementation, at Mr Ong's tofu industry, working comfortable can be felt by the worker and there's slightly increase in productivity by 25%.*

*Keywords: Ergonomiy, Product Design Tofu Cutting Tool, Value EngineeringMethod, Tiredness, Productivity*