

ABSTRACT

Tofu is a food that is much loved by the Indonesian people which can be processed into foods or snacks. Tofu can be the main ingredient for SMEs in the culinary field. With so many requests for tofu, therefore a production process is needed that can obtain market demand. Because the object being meticulous is a Tofu UMKM factory that still uses traditional methods. The production process already uses a machining process for the soybean milling section. However, the use process uses simple tools that work manually with the help of an operator. The operator's posture at work is included in level 5 of REBA which must implement changes so that the risk of musculoskeletal disorders and work accidents due to fatigue can be minimized.

The proposal screening tool is made using the Quality Function Deployment method. The research resulted in a tofu filtering device with automatic filtering and can remove tofu juice and tofu dregs by itself so that the tool can reduce the operator's workload and have a better posture. REBA conditions were originally assessed from the workers' side. REBA proposals also used the left side of the workers where the REBA value improved by 63%, which means that the possibility of workers suffering from musculoskeletal disorders is getting smaller.

Keywords — [DESIGN OF KNOW FILTERING EQUIPMENT, QFD, REBA, MSDs]