

ABSTRACT

UMKM Bakpia 714 Minomartani is one of the bakpia makers, it is located in the Minomartani Bakpia Center on Tenggiri Street, Minomartani Village, Condongcatur, Depok District, Sleman Regency, DI Yogyakarta. Bakpia 714 UMKM Minomartani uses mung bean peeler, peeling green beans must be done twice the grinding process so that the peanut shell peels perfectly. Therefore, it is necessary to redesign the mung bean peeler machine with a one-time processing to reduce fatigue, time, and risk of operator injury while working.

The design phase is carried out based on the Pahl and Beitz method. Mung bean peeler machine is ergonomically designed by paying attention to attributes including faster grinding time, does not require large power, easy to operate, easy to maintain, durable and durable, then the design of mung bean peeler is realized in real form.

The results showed that the mung bean peeler machine developed in this study could reduce the processing time from 6 minutes to 3 minutes 30 seconds, reducing the level of worker fatigue, from 47.92% CVL to 34.13%CVL, and the level test of user satisfaction is 4.33 on a scale of 5, this shows that the peanut shelling machine is in a good classification.

Keywords: *redesign of mung bean peeler, pahl and beitz, ergonomics*