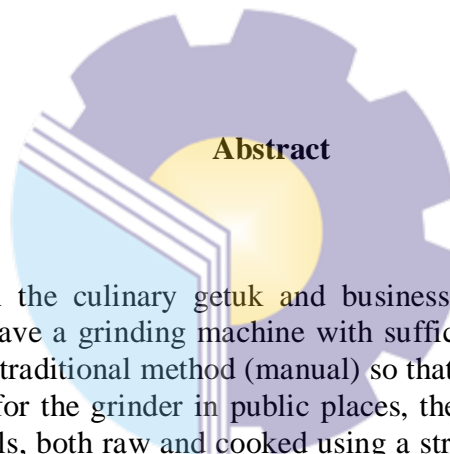


MODIFICATION OF THE STRAINER OF A VERSATILE GRINDING MACHINE USING AN ELECTRIC MOTOR

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Traders engaged in the culinary getuk and businesses engaged in small-scale businesses do not have a grinding machine with sufficient and hygienic capacity so they still use the traditional method (manual) so that the grinding process takes a long time, while for the grinder in public places, the milling machine used for grinding all materials, both raw and cooked using a strainer made of metal that is easy to rust. The purpose of designing and modifying the strainer is to determine the effect of variations in the number of strainers in the multipurpose grinding machine on the milling results. The results of the existing of grinding machines on the market are considered to be less effective and a rusty filter results in a less clean grind quality so that further modifications are needed. In this modification, a test is carried out on the effect of variations in the number of filter holes of a getuk grinding machine on the capacity and mill yield. Variations in the number of sieve holes used were 83 holes and 103 holes in four boiled sweet potato mills used as much as 4 kg with a speed of 381 Rpm in each test. Obtaining results using 83 holes of 9822 grams and 103 holes with a total mill of 9838 grams.

Key words : Modification of the strainer, the effect of the number of holes, 9822 grams.