

ABSTRACT

Purpose of this research was to determined the effectiveness of polisher part in skin polishing sorghum, sorghum polisher identify machines in reducing the levels of tannin, replacing polisher manually by automatically polisher, and implement the system in the engine polisher sorghum to processing activities sorghum.

Engineering design methods used in this research was the calculation of dimensions of the tools, creation and design engineering drawings, determination of the components of the tool, tool manufacture, assembly, and testing the function of the design tool.

Results polisher to polisher on one times with the initial weight of 3 kg of sorghum would produce sorghum 2.98 kg consisting of sorghum 2.26 Kg and sorghum intact 0.72 Kg rupture, while the results of the tannin content of polisher one of 1.364%. polisher to polisher results on teori times the initial weight of 3 kg of sorghum would produce sorghum 2.83 kg consisting of sorghum 1.92 Kg and sorghum intact 0.91 Kg rupture, while the results of the tannin content of polisher twice of 1.201%. polisher to polisher results on three times the initial weight of 3 kg of sorghum would produce sorghum 1.72 kg consisting of sorghum 1.73 Kg and sorghum intact 0.98 Kg rupture, while the results of the milling tannin levels three times as big as 0.938%.

Key words : Sorghum, polisher, tannin