

Arduino Based Automatic Brown Sugar Mixer System Design

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ABSTRACT

Indonesia is a country where the majority of the population depends on the agricultural sector which plays an important role in earning foreign exchange and meeting domestic food needs. In the village of Lojejer, Jember, people plant coconut trees to produce brown sugar from palm juice. Brown sugar has many nutritional benefits and a glycemic index. low, processed by extracting and heating coconut juice.

The stirring process in making brown sugar is very important, but manual stirring requires a lot of time and energy and can reduce product quality if it is not optimal. Therefore, the author got the idea to make an automatic mixer "Smart Automatic Mixer" which uses a ½ HP (Horse Power) AC motor and timer to stir the liquid evenly and continuously. This tool is expected to speed up the processing process and improve the quality of brown sugar.

Keywords: *System Design, Automatic Mixer, Brown Sugar.*