

ABSTRACT

DESIGN OF CAKWE PRINTING TOOLS BASED ON APPROPRIATE TECHNOLOGY

Cakwe is one of the traditional Chinese food made from flour, baking powder, baking soda, salt and wheat. SME's Cakwe Field Hatta is one of the small industry engaged in the culinary field. To make this faked cakwe, of course, the process of making the dough. This dough is usually cut into pieces before frying. During the process of making this dough there is a problem, namely the time of cutting the old dough. This leads to the waiting time for the old consumer due to the old cakwe dough cutting process. Usually the consumer waits 30 minutes to get the order, Based on the problem is needed design of cakwe printer tool that can reduce waiting time order for consumer. The cakwe printer tool with an appropriate technology approach (TTG) has a length of 12 cm, width 18 cm, and height 4 cm and uses iron plate, round iron, aluminum, and blades on technical aspects. For the economic aspect, the total cost of making the tool is 368,000. Aspects of ergonomics, using the length of the index finger to give comfort when taking the dough. Then the social and cultural aspects, have the habit of being only wearing a knife only and now wearing a tool. For culture, do not disturb the customs of Palembang. For energy-saving aspect, there is a decrease of energy usage from 176 kcal / hour to 143 kcal / hour. Environmental aspect, does not produce any waste in the process of making cakwe. This tool will make the workers more comfortable and can print 9 pieces at once so fast in making cakwe. After implementation, there is a reduction of waiting time for consumers. In addition, the printing time of 9 pieces of cakwe initially has an average of 30 seconds after using this cakwe printer tool to 11 seconds.

Keywords: tool design, cakwe printer tool, appropriate technology