

ABSTRACT

DESIGN OF EGG YOLK (AMIKUR) SEPARATION USING VALUE ENGINEERING METHODS (Case Study at Pempek Dodo UKM)

Pempek Dodo industry is an industry that makes pempek. This industry produces the most pempek eggs, namely with raw materials of fish as much as 4-5 kg, with the use of 60-85 eggs. Pempek eggs need more egg yolk, so it is necessary to separate the egg yolk which takes 25-40 minutes. Therefore researchers designed "AMIKUR" stands for egg yolk separator with value engineering method. AMIKUR is shaped like a railroad track and has dimensions of the main path length of 25 cm, an additional track length of 18 cm, the width of the egg track is 8 cm, the width of the tool is 7.5 cm, the hole width is 0.5 cm, the rear clamp height is 13.5 cm the front clamp height is 9 cm, and the clamping length is below 25 cm. This tool weighs approximately 400 grams. The average time of separation of egg yolks by using AMIKUR is 4.6 seconds / grain, so to separate 60-85 eggs it takes 5-7 minutes. The cost for designing this tool is Rp. 138,000, and the Break Even Point is Rp. 16,362,516.99 or 5454 pempek and the Payback Period for 14.47 hours.

Keywords: Tool Design, Egg Yolk, Value Engineering, Musculoskeletal, AMUKUR, Time of Separation