

## ***ABSTRACT***

*Crackers is one snack that originated from Indonesia. In some regions in Indonesia have a characteristic that is different crackers. The process of making crackers through a long process, in general, crackers creation process begins with making the dough, then dried and fried. At the fair crackers frying process is done by using oil and frying pan as the media, but in some areas in Indonesia crackers frying was done by using sand. Sand crackers frying process can be done with a variety of tools, anyone using a frying pan or use a frying machine that has been modified. The use of frying machine assessed modification can help in increasing production, but when viewed in terms of ergonomics on some frying machine needs to be done reconsideration because it can cause injury. Based on these problems have done the research to develop a frying machine with a focus on the ergonomic level. The research that has been done is produced a comfortable frying machine. But the development is done in the earlier study did not look at in terms of production, so it is feared such a device has a high level of complexity in the production process. In production activities are various production processes, one assembly. The assembly process can be said to be important, because the time in the assembly and the number of components can affect the cost of production. By using the method of design for assembly that passes through several stages to develop concepts acquired in previous investigators, resulting outcomes in the form of detail design frying machine with fewer number of components is from 93 parts to 43 parts, less assembly time is from 739.73 seconds to 330.13 seconds and a larger assembly efficiency ie from 19.06% to 25.44%*

*Keywords : Frying Machine, Assembly, DFA, Product Development, Detail Design*