

## ABSTRACT

PT. Tyfountex is a factory that produces fabrics on a large scale and performs its production for 24 hours. Machines used are machines that are mutually sustainable so that when one machine is damaged then the next machine will be disrupted. And if there are factors that disrupt the production process then the profits and the production process will be disrupted as well. Machines that run continuously this often occurs permanent damage or minor damage, especially on the Continuous 1. On Continuous 1 consists of infrared pander engine, compiler, hotflow, and drying and washing. Therefore, analysis of when to make repairs, replacements, and re-conditioning on each machine component is required.

From the analysis it is known that the suitable distribution used in the continuous system is the Weibull distribution because it has the maximum D as appropriate. For inter-failure time in Padder and Infrared the value of repair, replace and reinstallation / recondition is 46 days, 16 days and 43 days. The time between failures in the Compiler is 30 days, 29 days, and 17 days. For Unit 3, Hotflow has inter-time failure of 22 days, 26 days, 27 days. As for the Washing and Drying machine has the time between failure 33 days, 21 days, and 40 days.