

## ***ABSTRACT***

PT Universal Robina Corporation (URC) Indonesia Plant 2 is a company engaged in the snack food industry. In carrying out the production process, this company is experiencing problems, namely the daily production target is sometimes not achieved in 2021, the production process is not achieved due to the Wolf 2 machine in the packaging section which experiences downtime 1 to 2 times each month during 2021. The packaging section is the last stage in the production process, namely packaging the finished product into the product container and this process is also one of the references for the product to be able to arrive at the manufacturer safely without reducing the quality of the product. Based on the results of data processing and Risk Matrix assessment, there is 1 (one) machine component that has a high level of damage, namely the cutting knife. Currently PT Universal Robina Corporation Indonesia Plant 2 has problems with spare parts inventory, namely the company only determines the need for spare parts based on assumptions with the amount of stock of critical components based on the amount of damage in the previous year, for the stock of cutting knife components totaling 12 units. Therefore, Reliability Centered Spare (RCS) and Min-Max Stock analysis are needed. The purpose of using this method is for companies to obtain better spare parts requirements to increase the reliability of a machine and to determine the minimum, maximum and reorder points of the critical component spare parts inventory so as to minimize the occurrence of shortages or excess spare parts and the costs incurred will be more optimal. The results of this research using the RCS method, it is found that the need for spare parts for critical components is optimal in 1 (one) year, namely the cutting knife requires 1 unit. And the results of the study using the Min-Max Stock method showed that the minimum stock needs for spare parts in 1 (one) year are 6 units, maximum stock: 8 units, and Reorder Point: 6 units.

Keywords — [***Reliability Centered Spares, Min-Max Stock, Maintenance Management***]