

## ABSTRACT

PT XYZ is a company engaged in manufacturing. Production activities in PT XYZ require machines to operate properly. One of the machines contained in PT ZYX is HURON which is a machine to make machine parts in small to medium size. The HURON engine is a machine where the frequency of damage with *downtime* was high enough, with a small machine usage level and produce big *losses* to be received by the company when the machine is experiencing *downtime*. Therefore it is required *Overral Equipment Effectiveness (OEE)* to measure the performance and level of machine effectiveness. Another method used is *Risk-Based Maintenance* which is used to find out how big the cost of risks and *losses* to be received by the company. Based on *Overral Equipment Effectiveness (OEE)* method, OEE score of HURON machine in PT XYZ is 35% and *losses* are 57,39% in 2017. While the value of HURON Machine Risk based on *Risk-Based Maintenance* Rp 25.892.881.

Keywords - *Overral Equipment Effectiveness (OEE)*, *Risk-Based Maintenance (RBM)*, *Maintenance*, *Preventive Maintenance*.