ABSTRACT

Proposed Autonomous Maintenance machine Type CNC TMV-760
At Intake Pipe Products HINO 17 113-EON
(Case Study In PT WIKA INTRADE Majalengka)

Treatment is a major supporter of activities which aims to ensure the continuity of the functional role a system production (tools, machines) so when needed can be used according to the conditions expected. This can be achieved by performing maintenance activities and maintenance of the machine.

In this research is used Autonomous maintenance method, which is one of the pillars of Total Productive Maintenance (TPM). Autonomous Maintenance is activities designed to involve operators in the care of the machine. Autonomous maintenance purposes to change the old paradigm that the production operator is just not proficient to operate the machine so it does not need to understand and need not be concerned with damage to the engine and the quality of products produced by the machine.

The research done at PT WIKA INTRADE engaged in the manufacturing industry, this research focuses on CNC machine type TMV-760 that does the machining of the 17 113-Intake Pipe products EON40 HINO. The problems that arise on this machine is a frequent occurrence at the time of dismissal operate due to its components, because the maintenance is performed by the operator is very simple, due to lack of skill of the operator. The first stage of measuring the effectiveness of CNC machine type TMV-760 using the method of OEE, and then the improvement with the proposed method of autonomous maintenance

The data used from the last one year is January to December 2010. During the period values obtained Overall Equipment Effectiveness (OEE), which ranged between 78.90% -89.223%, not all months have been an ideal OEE value is> 85%. This is due to the length of downtime and reject the product is still a lot, due to operators still have the old paradigm. Therefore, the application of the method proposed autonomous maintenance method on operator CNC machine type TMV-760 aims to change the old paradigm.

Key Words : TPM, Overall Equipment Effectiveness, Autonomous Maintenace.