

ABSTRAK

PT. Tuffindo Nittoku Autoneum merupakan perusahaan otomotif yang berfokus pada komponen kendaraan motor roda empat bagian dalam seperti *dash insulator* dan karpet yang di khususkan sebagai peredam suara. Suatu proses produksi dalam sebuah perusahaan tentunya melibatkan mesin yang handal untuk kelancaran proses produksi khususnya dibagian mesin pres yang memiliki peran penting dalam proses produksi sehingga harus dirawat atau dipelihara dengan baik. Penelitian ini bertujuan untuk mengetahui cara peningkatan efektifitas mesin pres serta mencegah terjadinya kerugian-kerugian yang tidak diharapkan dalam aktifitas proses produksi. Penelitian ini menggunakan rancangan kuantitatif serta penerapan *Total Productive Maintenance* (TPM) dengan perhitungan *Overall Equipment Effectiveness* (OEE) dan teknik pengumpulan data dilakukan dengan cara observasi, wawancara dan studi literatur. Setelah melakukan penelitian diperoleh nilai rata-rata OEE pada mesin pres sebesar 75% dengan nilai *availability* 96%, nilai *performance* 45%, dan nilai *quality* 84%, nilai ini dianggap masih rendah karena masih di bawah nilai OEE standar *Japan Institute Plan Maintenance*. Selain itu, penerapan *Total Productive Maintenance* (TPM) dapat dijalankan dengan baik terutama di divisi *dash insulator*, adanya perubahan nilai yang didapatkan melalui program pemeliharaan mesin secara rutin pada proses produksi mesin pres, melakukan penyetingan yang tepat serta pemahaman operator terhadap mesin pres. Diperlukan komunikasi antara operator, *team maintenance* atau *technical support* dan *team sparepart* agar cepat tanggap melakukan perbaikan dan penyediaan *sparepart* bila kondisi mesin sudah kritis agar kegiatan *maintenance* cepat di selesaikan.

Kata kunci: *Total Productive Maintenance* (TPM), *Overall Equipment Effectiveness* (OEE), *Six Big Losses*, Mesin Pres

ABSTRACT

PT. Tuffindo Nittoku Autoneum is an automotive company that focuses on four-wheeled internal motor vehicle components such as insulating dashes and carpets that are specifically designed as sound suppressants. A production process in a company involves a reliable machine for smooth production processes, especially in the press machine section, which has an important role in the production process, so it must be ordered properly. This research aims to find out how to improve the efficiency of press machines as well as prevent the occurrence of unexpected losses in the activity of the production process. The research uses quantitative design as well as the application of Total Productive Maintenance (TPM) with the calculation of Overall Equipment Effectiveness (OEE) and data collection techniques carried out by means of observations, interviews, and literature studies. After conducting the research, the average OEE value of a press machine was 75% with an availability rating of 96%, a performance rating of 45%, and a quality rating of 84%. This value is considered to be still low because it is still below the OEE standard Japan Institute Plan Maintenance. In addition, the application of Total Productive Maintenance (TPM) can be performed well, especially in the dash insulator division. There is a change in value obtained through a routine machine maintenance program on the production process of the press machine, performing proper adjustment as well as an understanding of the operator against the press machines. It requires communication between the operator, the maintenance or technical support team, and the spare parts team to quickly respond to the repair and supply of spare parts when the condition of the machine is critical for the maintenance activities to be completed quickly.

Keywords: Total Productive Maintenance (TPM), Overall Equipment Effectiveness (OEE), Six Big Losses, Machine Press