Implementasi lean manufacturing dengan menggunakan Metode Overall Equipment Effectiveness dan Perancangan Single Minute Exchange of Dies untuk meningkatkan kinerja produktifitas industri manufaktur = Implementation of lean manufacturing using Overall Equipment Effectiveness Method and Designing Single Minute Exchange of Dies to improve manufacturing industry productivity performance

Bagas Caesar Maulidani, author

Abstrak

Penelitian ini bertujuan untuk mengetahui produktivitas suatu proses produksi pada Industri Manufaktur Stamping. Penelitian ini menemukan bahwa equipment losses merupakan salah satu permasalahan yang sesungguhnya, sehingga tindakan perbaikan difokuskan pada permasalahan ini. Dalam penelitian ini menggunakan metode Overall Equipment Effectiveness (OEE), dari hasil perhitungan OEE diperoleh nilai yang sangat rendah sebesar 75% tidak mencapai standar World Class 85%. Berdasarkan hasil analisa menggunakan diagram pareto, kerugian losses paling mempengaruhi rendahnya nilai OEE yaitu performance losses dan waktu setup mesin. Pengurangan waktu setup dilakukan dengan penerapan konsep Single Minute Exchange of Dies (SMED) dengan memisahkan setup internal dan setup eksternal yang menghasilkan pengurangan waktu sebesar 30%.

.....This study aims to determine the productivity of a production process in the Stamping Manufacturing Industry. This study found that equipment losses are one of the real problems, so corrective action is focused on this problem. In this study using the Overall Equipment Effectiveness (OEE) method, from the results of the OEE calculation, a very low value of 75% did not reach the 85% World Class standard. Based on the results of the analysis using the Pareto diagram, the losses that most affect the low OEE value are performance losses and machine setup time. The reduction in setup time is done by applying the Single Minute Exchange of Dies (SMED) concept by separating the internal setup and external setup which results in a 30% reduction in time.