

ABSTRAK

Penelitian ini dilakukan bertujuan untuk merumuskan efektivitas dan efisiensi kinerja dari mesin Trupunch V 5000 I di PT. Laser Metal Mandiri berdasarkan nilai Overall Equipment Effectiveness (OEE). Faktor yang mempengaruhi penurunan efektivitas peralatan disebut Six Big Losses, yaitu Breakdown Loss, Set Up/Adjustment Loss, Idling and Minor Stoppages, Reduce speed losses, Yield/Scrap Losses, Rework. Pada laporan skripsi ini Penulis menerapkan metode Overall Equipment Effectiveness (OEE) untuk mengetahui efektivitas dan efisiensi kinerja dari mesin Trupunch V 5000 I. Dalam penelitian ini dilakukan pengumpulan data dengan mengambil data kerusakan mesin Trupunch V 5000 I dan mengolah data seperti mencari nilai OEE, korelasi dan regresi serta menggunakan diagram fishbone. Berdasarkan dari hasil perhitungan OEE faktor Six Big Losses yang memberikan kontribusi terbesar pada mesin Trupunch V 5000 I adalah Reduce Speed Losses dengan rata-rata nilai sebesar 28,97%, diikuti dengan Yield/Scrap Losses sebesar 16,39%, diikuti dengan Idling and Minor Stoppages sebesar 7,67%, diikuti dengan Set Up/Adjustment Loss sebesar 2,93 %, diikuti dengan breakdown losses sebesar 2,53 % dan rework losses sebesar 0,69 %.

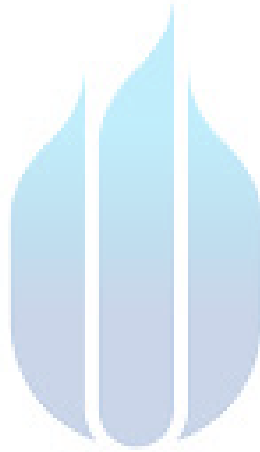
Kata Kunci: Mesin Trupunch V 5000 I, Overall Equipment Effectiveness (OEE), Six Big Losses, Regresi dan Korelasi.



ABSTRACT

This study was aimed to formulate the effectiveness and efficiency of the performance of the engine V 5000 I Trupunch in PT. Laser Metal Mandiri based on the value of Overall Equipment Effectiveness (OEE). Factors affecting the decline in effectiveness of equipment called the Six Big Losses, namely Breakdown Loss, Set Up / Loss Adjustment, Idling and Minor Stoppages, Reduce speed losses, Yield / Losses Scrap, Rework. This paper reports on the authors apply the method of Overall Equipment Effectiveness (OEE) to examine the effectiveness and efficiency of the performance of the engine V 5000 Trupunch I. In this research, data collection by retrieving data Trupunch V 5000 engine failure and process the data as I find the value of OEE, correlation and regression, and using fishbone diagrams. Based on the results peritungan Six Big Losses OEE factors that contribute most to the machine I was Trupunch V 5000 Speed Reduce Losses with an average value of 28.97%, followed by Yield / Scrap Losses amounted to 16.39%, followed by idling and Minor Stoppages by 7.67%, followed by Set Up / Loss Adjustment for 2.93%, breakdown diikuti with losses of 2.53% and rework losses of 0.69%.

Keywords: Mechanical Trupunch V 5000 I, Overall Equipment Effectiveness (OEE), Six Big Losses, Regression and Correlation.



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