

ANALYSIS OF FLEXO PRINTING MACHINE EFFECTIVENESS USING OVERALL EQUIPMENT EFFECTIVENESS METHOD BASED ON SIX BIG LOSSES IN THE CORRUGATED BOX INDUSTRY

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Abstracts

PT X is a manufacturing company engaged in the integrated cardboard industry. PT X uses several machines in the production process, one of which is a flexography machine. During the production process on flexography machines there are still deficiencies that must be corrected. The main focus of this study is to analyze the main causes of failures that occur and provide suggestions for improvements that can be made to the flexography machines using the Six Big Losses-based Overall Equipment Effectiveness (OEE) method. Based on the OEE calculation results, it can be seen that the availability ratio value of 88.8% still does not meet world-class standards, namely 90%. This is analyzed more deeply using the six big losses and it is found that the main cause of not achieving the availability ratio value is the high percentage at the time of setup and adjustment losses of 7%. Therefore, the recommendations for improvement proposed are conducting training for operators regarding the proper and correct operation of flexography machines, conducting daily briefings for operators before the shift begins and holding regular supervision, carrying out routine and time-limited cleaning of machines and work locations, establishing standards machine operations according to standards, so that operators are more disciplined in carrying out their duties.

Keywords: *Overall Equipment Effectiveness, six big losses, availability ratio, quality ratio, performance efficiency*