

IMPROVE PRODUCTION EFFICIENCY BY USING OVERALL EQUIPMENT EFFECTIVENESS (CASE STUDY – ONE OF EGYPTIAN FOLDING CARTON PACKAGING PRESSES)

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ABSTRACT

Most of Egyptian packaging companies have continual problems for balancing their production capacity with the ever changing sales and customer demands. They have been forced to accommodate to the customers' needs through increased overtime. This problem has created breaks in the manufacturing process of the customers' orders as well which cause late deliveries and partial shipments.

The purpose of this paper is to review one of Egyptian folding carton packaging companies current production capacity restrictions (case study) and compare it to their sales and customers' demands. Reviewing the data will assist in configuring a long-term solution option. This paper will:

- 1. Evaluate the current production Overall Equipment Effectiveness (OEE) of one sheet-fed offset printing machine.*
- 2. Analyze the three main factors according to six big losses.*

As more important results, it has been found lack of preventive maintenance management, causing many stops breakdowns, low speed machinery. Also, takes long time of setup and make-ready of equipments, due to shortage of skilled operators. Furthermore, rejected of production resulting from the non-use of quality methods effectively.

The researcher recommends to measure continuously overall equipment effectiveness to be able eliminate all of the big losses and continue to improve the printing productivity.