Case Study on the Quality Improvement of Dry Offset Letterpress Printing on Aluminium Collapsible Tubes

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Abstract:
Purpose – Case study on improving the printing quality of Dry Offset Letterpress (DOL) on aluminum collapsible tubes. The study includes the analysis of the current situation within the quality of printing (the current process and to identify existing problems), an improvement study (analyze the cause of existing printing problems and the recommended solutions) and implementation to obtain the required levels of printing quality.

The aim of this research is to identify the printing problems of aluminum collapsible tubes facing Medical Appliances and Packages Company (MAPC) during the printing process.

Design/Methodology/Approach – The researcher identified the current situation with the printing problems of aluminum collapsible tubes in MAPC as well as determining the possible remedies. The researcher identified methods to solve the printing problems and enhance printing quality.

Findings – Approximately seven major problems were found with tube printing, which can be associated with the ink application to the tube surface, the machine condition, the heat treatment after printing process and characteristics of dry offset printing technology.

Value – This research is useful for industries in the production of aluminum collapsible tubes to eliminate any printing problems to enhance the levels of printing quality.

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