

The effect of the development of control and operating systems for flexo printing machines on improving the quality of printing of packaging products (case study of Obeikan packaging)

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Abstract:

Quality means achieving a high degree of good quality and great value, and is considered one of the reliable criteria to distinguish an achievement from other achievements in the market itself, and that is by implementing a set of international standards and rules and laws that can be achieved and measurable, and these standards have been found to obtain satisfaction Users and clients.

The concept of quality control also expresses a set of activities and efforts made by working people that allow the production of standards of quality. As many packaging presses suffer from printing quality problems and lack of quality that satisfies the customer, which increases customer complaints, although printing machines and most raw materials may be imported from abroad, on the other hand, most of these printers do not activate the use of devices or Print quality measurement and control systems.

The research problem lies in the fact that despite the development of control and operation systems for flexo printing machines, there is no noticeable improvement in the quality of printing raw materials for packaging using these printing methods, and therefore it is necessary to apply modern control and operating systems for flexo printing machines to improve the quality of packaging products printing in Saudi presses.

The research problem can be formulated in the form of a question as follows:

Does the application of modern or advanced control and operating systems to flexo printing machines improve the print quality of packaging products in Saudi presses?

This research aims to apply modern control and operating systems to flexo printing machines to improve the print quality of packaging products.

Many presses seek to achieve quality in a variety of ways, including purchasing modern devices to control quality and assigning quality teams only to study the problems that arise within the press and also depend on the appointment of experienced technicians and engineers to manage that system to achieve the highest levels of quality in their printers.

In pursuit of the research goal, the researcher checks the influencing factors that cause problems within the packaging press after identifying the human capabilities, operational solutions, measuring devices and the quality system used by these presses to find out practical and operational solutions to prevent errors and improve quality.

Key Words:

control and operating systems, flexo printing machines, quality, measurement systems, international standards