

Simulation of automatic feeding system operation for a stamping machine using PLC S7300 and computer-based monitoring control.

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Abstract: This topic focuses on simulating the operation of an automatic workpiece feeding system in the field of mechanical manufacturing. The reason for choosing this topic lies in the need to optimize the production process through the application of PLC S7300 technology and remote supervisory control. The main objective is to build an automatic system that helps minimize workpiece feeding errors, improve work efficiency, and save time for production workers. The research method combines theory with experimentation to ensure the accuracy of the simulation model. The significance of the topic lies in its practical applicability, contributing to the improvement of workpiece stamping production technology and enhancing labor productivity.

Keywords: PLC S7300, production automation, workpiece feeding system, remote control, stamping machine