

Design of a conveyor speed control system with reverse direction using a variable frequency drive and PLC.

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Abstract: This topic focuses on designing and implementing a conveyor speed control system with reversing capability to meet practical requirements in real-world projects. Through theoretical research combined with experimentation, the goal is to build an effective solution for automated conveyor systems. The approach includes technical analysis of inverters and PLCs to determine a suitable control system structure. The expected outcome is a complete system with flexible reversing functionality, contributing to optimizing conveyor operational performance in modern industries.

Keywords: Control system, Inverter, PLC, Automatic conveyor, Reversing