

# **Research on flexible production line models**

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**Abstract:** This topic aims to research and apply a flexible production line model in enterprises to enhance labor productivity and reduce costs. Through analyzing the current situation, the topic identifies the necessary issues to improve production management by implementing automation technology. The research method includes assessing the current state, building a model, and conducting real-world testing. The goal is to provide a comprehensive solution for enterprises seeking to improve production efficiency in the Industry 4.0 era. The expected results will demonstrate the high applicability of the topic in the current context.

**Keywords:** production line, flexibility, automation, production management, Industry 4.0