

CRITICAL ANALYSIS OF SYNCHRONOUS INDEX AT A TYPICAL VALVE MANUFACTURING COMPANY

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Abstract

Operational methodologies which do not distinguish constraints in a system inevitably result in inappropriate decisions about organizing it. Synchronous manufacturing views an organization not as a system consisting of collection of resources existing in isolation, but as a chain of resources which are linked by the processes they perform to work in tandem towards common objectives.

This paper is about studying closely a production system, identifying its constraints, suggesting means and methods to synchronize it by minimizing the constraints and analyzing its synchronicity at different situations with the help of a software tool “Synchronous Analyzer”. This tool quantifies the systems’ condition by the Synchronous Index and displays the subsequent changes in the system by the graphs and charts. Here an attempt is made to critically analyze the Synchronous Index (SI) and to make the production systems more synchronous with the related processes.

Keywords: Synchronous Analyzer, Synchronous Index, Synchronicity.