

SYNCHRONOUS MANUFACTURING – A WORLD CLASS MANUFACTURING FOR 21ST CENTURY – A GENERIC APPROACH

ASHOK MEHATHA AND B. RAVISHANKAR

Abstract

Achieving total customer satisfaction and developing efficient manufacturing processes were evident in the 20th century. This century experiencing global competition in the manufacturing era and it has made customer to become much more demanding and earlier deliveries on time. Manufacturing companies across the world are feeling the pressure to survive in a global market that demands higher quality, faster delivery and lower prices. Many investigations in manufacturing processes show that the resources are not properly integrated to address these problems. Hence it is needed to synchronize the different elements of work in order to generate the high level of performance. To achieve this many research activities have been carried out around the globe in the field of manufacturing management system. The last two decades have witnessed the emergence of a synchronous manufacturing system as a novel approach to the management of manufacturing enterprises. The philosophy of synchronous manufacturing can be very well approached for continuous optimum growth and optimum production. This paper presents methodology and important characteristics of Synchronous Manufacturing that enables managers to develop and implement efficient processes by eliminating the process constraints.

Keywords: capacity constrained resources (CCR), Throughput, ROI, DBR