

## MRP II /ERP能力计划的一种改进方法

庄亚明, 何建敏

东南大学经济管理学院, 江苏, 南京, 210096

## An Improved Capacity Requirements Planning Method for MRP II /ERP Systems

ZHUANG Ya-ming, HE Jian-min

Management College, Southeast University, Nanjing 210096, China

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**摘要** 越来越多的制造企业已经或将要把MRP II /ERP思想和MRP II /ERP系统应用于企业经营管理,但是作为MRP II /ERP系统的基本功能的能力需求计划(CRP)有许多不足。本文拟在研究现有MRP II /ERP系统能力需求计划(CRP)的基本思想、对工作中心能力计算和平衡方法的基础上,提出单步工序可选加工工艺集和工作中心集的概念;以工作中心有限能力为基本前提,把工作中心的能力、工时成本和人员设备因素作为约束条件,同时控制CRP计算的工作量,给出了CRP改进思想与方法,以及CRP的求解算法。

**关键词:** [制造资源计划](#) [能力计划](#) [工作中心](#) [约束](#) [算法](#)

**Abstract:** To provide customers with products on time,the Manufacturing Resource Planning(MRP II)systems or Enterprise Resource Planning(ERP)systems are introduced to many manufacturers The Capacity Requirements Planning(CRP)is a basic function of MRP II /ERP systems.But the CRP has some weaknesses.For example,it has no capability to adjust the processes and the work centers when they are out of work or the loads on them are out beyond their capacities,and it is on the hypothesis of infinite capacities when calculating the loads of work centers.The author of this paper presents the concept of adaptable processes set and work centers set for a single step in a material process plan after analyzing the mechanism and algorithm of CRP.A new idea including conditions such as the finite capacities of work centers,the workers and the devices for CRP is puts forward by the author.The author also presents an improved algorithm of CRP that reduces the quantity of calculation.

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