

Home ► All Journals ► Engineering & Technology ► International Journal of Production Research ► List of Issues ► Volume 50, Issue 3 ► Capacity coordination in hybrid make-to- ....

#### International Journal of Production Research >

Volume 50, 2012 - Issue 3

1,040320ViewsCrossRef citations to dateAltmetricOriginal Articles



# Capacity coordination in hybrid make-tostock/make-to-order production

# environments

#### H. Rafiei & M. Rabbani 🜄

Pages 773-789 | Received 05 Jul 2010, Accepted 29 Oct 2010, Published online: 14 Jun 2011

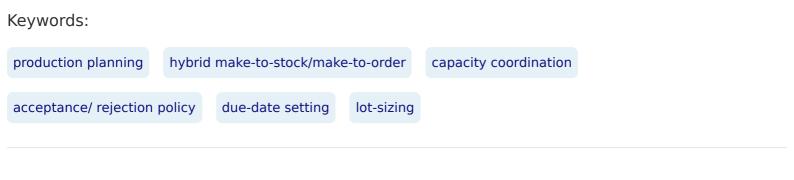
**G** Cite this article Attps://doi.org/10.1080/00207543.2010.543174



### Abstract

One of the most important decisions in hybrid make-to-stock/make-to-order (MTS/MTO) production systems is capacity coordination. This paper addresses capacity coordination of hybrid MTS/MTO production systems which deal with MTS, MTO and MTS/MTO products. The proposed model is developed to cope with order acceptance/rejection policy, order due-date setting, lot-sizing of MTS products and determining required capacity during the planning horizon. Additionally, a backward lot-sizing algorithm is developed to tackle the lot-sizing problem. The proposed model presents a general framework to decide on capacity coordination without too many limiting mathematical assumptions. The model combines qualitative and quantitative modules to cope with the aforementioned problems. Finally, a real industrial case study

is reported to provide validity and applicability of the proposed model. Having the model applied in the case study, considerable improvement was achieved.



## Related research 1

People also read	Recommended articles	Cited by 32
· · · · · · · · · · · · · · · · · · ·		

Information for	Open access	
Authors	Overview	
R&D professionals	Open journals	
Editors	Open Select	
Librarians	Dove Medical Press	
Societies	F1000Research	
Opportunities	Help and information	
Reprints and e-prints	Help and contact	
Advertising solutions	Newsroom	
Accelerated publication	All journals	
Corporate access solutions	Books	

#### Keep up to date

Register to receive personalised research and resources by email





Copyright © 2025	Informa UK Limited	Privacy policy	Cookies	Terms & conditions	Francis Group
Accessibility					

Registered in England & Wales No. 01072954 5 Howick Place | London | SW1P 1WG