

International Journal of Production Research >

Volume 50, 2012 - [Issue 3](#)

1,067

Views

32

CrossRef citations to date

0

Altmetric

Original Articles

Capacity coordination in hybrid make-to-stock/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

 Cite this article  <https://doi.org/10.1080/00207543.2010.543174>

Sample our
Economics, Finance,
Business & Industry Journals
>> [Sign in here](#) to start your access
to the latest two volumes for 14 days

 Full Article

 Figures & data

 References

 Citations

 Metrics

 Reprints & Permissions

Read this article

Share

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.

Keywords:

- production planning
- hybrid make-to-stock/make-to-order
- capacity coordination
- acceptance/ rejection policy
- due-date setting
- lot-sizing

Related research

People also read

Recommended articles

Cited by
32

Information for

[Authors](#)

[R&D professionals](#)

[Editors](#)

[Librarians](#)

[Societies](#)

Opportunities

[Reprints and e-prints](#)

[Advertising solutions](#)

[Accelerated publication](#)

[Corporate access solutions](#)

Open access

[Overview](#)

[Open journals](#)

[Open Select](#)

[Dove Medical Press](#)

[F1000Research](#)

Help and information

[Help and contact](#)

[Newsroom](#)

[All journals](#)

[Books](#)

Keep up to date

Register to receive personalised research and resources by email



Sign me up



Copyright © 2026 Informa UK Limited [Privacy policy](#)

[Cookies](#) [Terms & conditions](#) [Accessibility](#)

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



Taylor & Francis
by informa