



54th CIRP Conference on Manufacturing Systems

Reconfigurable Manufacturing Development: Insights on Strategic, Tactical, and Operational Challenges

Carin Rösiö^{a,*} and Ann-Louise Andersen^{a,b}

^a*Industrial Product Development, Production and Design, School of Engineering, Jönköping University, Gjuterigatan 5, 551 11 Jönköping, Sweden*

^b*Department of Materials and Production, Aalborg University, Fibigerstræde 16, 9220 Aalborg East, Denmark*

* Corresponding author. Tel.: +45 36 9101648. E-mail address: carin.rosio@ju.se

Abstract

The paper provides empirical insight on how changeable and reconfigurable manufacturing system concepts can be developed to meet requirements in manufacturing companies, as well as the related organizational and technical challenges. The findings reveal that there are still strong barriers towards the wider implementation of reconfigurability and that a paradigm shift in industry is required, e.g., in terms of managing stepwise investments, organizational culture and mindset, approaches to production development, organizational structures, and knowledge on changeability and reconfigurability.

© 2021 The Authors. Published by Elsevier B.V.

This is an open access article under the CC BY-NC-ND license (<http://creativecommons.org/licenses/by-nc-nd/4.0/>)

Peer-review under responsibility of the scientific committee of the 54th CIRP Conference on Manufacturing System

Keywords: Reconfigurable manufacturing, Changeable manufacturing, changeability, case-study, manufacturing system
