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# A review of production planning and control: the applicability of key concepts to the make-to-order industry

M. Stevenson \*, L. C. Hendry &amp; B. G. Kingsman †

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## Abstract

The paper reviews 'classic approaches' to Production Planning and Control (PPC) such as Kanban, Manufacturing Resource Planning (MRP II) and Theory of Constraints (TOC), and elaborates upon the emergence of techniques such as Workload Control (WLC), Constant Work In Process (CONWIP), Paired cell Overlapping Loops of Cards with

Authorized (M) solutions. A critical factors of the Make-To- stock such as the important organization and shop planning ability of practitioners and high making, and high merges as the most effective Job Shop solution; whilst for other configurations there are several

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alternatives depending on individual company characteristics and objectives. The paper outlines key areas for future research, including the need for empirical research into the use of Workload Control in small and medium sized MTO companies.

Keywords:

Production planning and control (PPC)

Make-to-order (MTO)

Job shop

Small and medium sized enterprises (SME)

Workload control (WLC)

## Notes

Sadly, Professor Brian Kingsman died in August 2003, part way through this research project. His contribution and encouragement are greatly missed by the co-authors.

## Additional information

### Notes on contributors

B. G. Kingsman †

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## Related research

Production planning and control (PPC)

Make-to-order (MTO)

Job shop



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