

Accepted Manuscript

OR in Spare Parts Management: A Review

Qiwei Hu , John E. Boylan , Huijing Chen , Ashraf Labib

PII: S0377-2217(17)30701-4
DOI: [10.1016/j.ejor.2017.07.058](https://doi.org/10.1016/j.ejor.2017.07.058)
Reference: EOR 14608



To appear in: *European Journal of Operational Research*

Received date: 18 April 2016
Revised date: 21 July 2017
Accepted date: 24 July 2017

Please cite this article as: Qiwei Hu , John E. Boylan , Huijing Chen , Ashraf Labib , OR in Spare Parts Management: A Review, *European Journal of Operational Research* (2017), doi: [10.1016/j.ejor.2017.07.058](https://doi.org/10.1016/j.ejor.2017.07.058)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

European Journal of Operational Research Manuscript Draft

Manuscript Number:

Title: OR in Spare Parts Management: A Review

Article Type:

Keywords: inventory, spare parts management, operational research (OR)

Corresponding Author: Huijing Chen

Corresponding Author's Institution: University of Portsmouth

First Author: Qiwei Hu

Order of Authors: Qiwei Hu, John E Boylan, Huijing Chen, Ashraf Labib

Abstract: Spare parts are held to reduce the consequences of equipment downtime, playing an important role in achieving the desired equipment availability at a minimum economic cost. In this paper, a framework for OR in spare parts management is presented, based on the product lifecycle process and including the objectives, main tasks, and OR disciplines for supporting spare parts management. Based on the framework, a systematic literature review of OR in spare parts management is undertaken, and then a comprehensive investigation of each OR discipline's contribution is given. The gap between theory and practice of spare parts management is investigated from the perspective of software integration, maintenance management information systems and adoption of new OR methods in software. Finally, as the result of this review, an extended version of the framework is proposed and a set of future research directions is discussed.

Download English Version:

<https://daneshyari.com/en/article/6895146>

Download Persian Version:

<https://daneshyari.com/article/6895146>

[Daneshyari.com](https://daneshyari.com)