## عنوان مقاله:

Travel Times Models of a Single Machine Flow Rack AS/RS

## محل انتشار:

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## نویسندگان:

.Zaki Sari - Manufacturing Engineering Laboratory of Tlemcen (MELT), University of Tlemcen, Algeria

Mohammaed Adel Hamzaoui - Manufacturing Engineering Laboratory of Tlemcen (MELT), University of Tlemcen, .Algeria

## خلاصه مقاله:

In the present work, a variation of the classical flow-rack automated storage and retrieval system (AS/RS) isinvestigated. This configuration is using a single storage and retrieval machine instead of two machines dedicated tostorage and retrieval. The aim being to reduce the capital investment of the warehouse. The present paper aims toinvestigate travel times models of this system. Exact discrete travel times models are developed and used to validatethe approximate continuous models developed by authors in previous works. These exact models are developed forstorage, retrieval single cycles as well as for dual cycles. In addition, two dwell point positions of the storage andretrieval machine are investigated. An overall travel time model considering single and dual cycle operations isproposed. Computer simulation is used to compare exact and approximate travel times models for .different scenariosof the AS/RS dimensions

**کلمات کلیدی:** AS/RS; Travel time, warehousing

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